ComAnt antennas for Professionals since 1990

Business

Oy CompleTech Ltd has been designing, manufacturing and supplying **ComAnt®** antennas to professional radio networks since 1990. Typical application environments are in closed radio networks: SCADA, telemetry, private mobile radio and networks for authorities. The end users range from water management, electricity, oil and gas distribution to industry and military all over the world. **ComAnt®** antennas are marketed and sold through a partner network in over 60 countries.

Products

ComAnt® antennas cover the frequency range of 60 MHz – 6 GHz. The product range includes antennas with different radiation pattern and gain, power splitters, ring hybrids, lightning protectors, mounting accessories, feedlines and jumper cables, connectors and adaptors. Cables can be ready made: cut to length, connectors mounted, weatherproofed, tested and marked.

Construction

ComAnt® antennas are based on hermetically sealed IP67 grade water and dust proof construction where all electromechanics is moulded inside of closed cell PU-foam and covered by UV-protected fiberglass or ABS plastics. The loading effect of water, snow and ice to antenna electrical performance is minimized by enclosing the radiator within a protective radome. The weight and wind load are minimized in antenna design. Integrated impedance compensation makes the thin radiator behave like a fat and thus a broadband one with excellent VSWR characteristics. The antenna feed point is DC shorted providing basic antenna circuit overvoltage protection. Integrated RF choke prevents common mode currents and unwanted feedline radiation. Antenna mounting hardware is made of corrosion free Al alloy and acid proof stainless steel.

Logistics

ComAnt® antennas are modular internally and externally. Internal modularity enables fast and flexible production from an intermediate to a finished product. External modularity enables combining basic products into countless different application products with different radiation pattern and gain. This all results in extremely flexible logistics, short delivery times and unique reliability of deliveries through the whole supply chain.

Service

CompleTech provides comprehensive technical support, design and modelling of customized antenna arrays and complete radio network planning with state-of-the-art tools.

CompleTech

ComAnt® -antennas by CompleTech, Finland

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
Dipoles and arrays												
CA85D	offset pattern dipole	83-88	5	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	695	1150	84
CA85B2	bidirectional broadside	83-88	6	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1235	2920	168
CA85C2	offset pattern collinear	83-88	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	5220	2920	168
CA85C3	offset pattern collinear	83-88	10	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	8750	4690	189
CA85B4	bidirectional stacked broadside	83-88	9	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	5315	6460	336
CA85C4	offset pattern collinear	83-88	11	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	12280	6460	336
CA140D	offset pattern dipole	135-145	5	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	570	905	63
CA140B2	bidirectional broadside	135-145	6	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	985	2260	126
CA140C2	offset pattern collinear	135-145	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3180	2260	126
CA140C3	offset pattern collinear	135-145	10	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	5320	3615	189
CA140B4	bidirectional stacked broadside	135-145	9	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3270	4970	252
CA140C4	offset pattern collinear	135-145	11	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	7470	4970	252
CA150D	offset pattern dipole	144-156	5	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	540	900	60
CA150B2	bidirectional broadside	144-156	6	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	930	2200	120
CA150C2	offset pattern collinear	144-156	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2970	2200	120
CA150C3	offset pattern collinear	144-156	10	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	4970	3500	180
CA150B4	bidirectional stacked broadside	144-156	9	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3065	4800	240
CA150C4	offset pattern collinear	144-156	11	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	6970	4800	240
CA160D	offset pattern dipole	154-166	5	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	520	885	57
CA160B2	bidirectional broadside	154-166	6	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	880	2110	114
CA160C2	offset pattern collinear	154-166	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2780	2110	114
CA160C3	offset pattern collinear	154-166	10	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	4655	3435	171
CA160B4	bidirectional stacked broadside	154-166	9	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2875	4610	228
CA160C4	offset pattern collinear	154-166	11	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	6530	4610	228
CA170D	offset pattern dipole	163-177	5	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	495	860	55
CA170B2	bidirectional broadside	163-177	6	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	840	2095	110
CA170C2	offset pattern collinear	163-177	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2625	2095	110
CA170C3	offset pattern collinear	163-177	10	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	4390	3330	165
CA170B4	bidirectional stacked broadside	163-177	9	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2710	4565	220
CA170C4	offset pattern collinear	163-177	11	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	6150	4565	220

1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
CA230D	offset pattern dipole	221-239	5	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	405	775	45
CA230B2	bidirectional broadside	221-239	6	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	650	1890	90
CA230C2	offset pattern collinear	221-239	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1955	1890	90
CA230C3	offset pattern collinear	221-239	10	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3260	3005	135
CA230B4	bidirectional stacked broadside	221-239	9	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2050	4120	180
CA230C4	offset pattern collinear	221-239	11	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	4560	4120	180
CA340D	offset pattern dipole	326-353	5	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	320	700	36
CA340B2	bidirectional broadside	326-353	6	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	485	1690	72
CA340C2	offset pattern collinear	326-353	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1320	1690	72
CA340C3	offset pattern collinear	326-353	10	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2205	2680	108
CA340B4	bidirectional stacked broadside	326-353	9	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1415	3670	144
CA340C4	offset pattern collinear	326-353	11	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3085	3670	144
CA340N4	cardioid pattern notch	326-353	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3085	3670	144
CA350D	offset pattern dipole	336-364	5	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	310	700	36
CA350B2	bidirectional broadside	336-364	6	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	400	1690	72
CA350C2	offset pattern collinear	336-364	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1280	1690	72
CA350C3	offset pattern collinear	336-364	10	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2130	2680	108
CA350B4	bidirectional stacked broadside	336-364	9	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1280	3670	144
CA350C4	offset pattern collinear	336-364	11	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2990	3670	144
CA350N4	cardioid pattern notch	336-364	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2990	3670	144
CA380D	offset pattern dipole	365-395	5	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	300	690	35
CA380B2	bidirectional broadside	365-395	6	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	445	1660	70
CA380C2	offset pattern collinear	365-395	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1190	1660	70
CA380C3	offset pattern collinear	365-395	10	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1980	2630	105
CA380B4	bidirectional stacked broadside	365-395	9	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1285	3600	140
CA380C4	offset pattern collinear	365-395	11	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2765	3600	140
CA380N4	cardioid pattern notch	365-395	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2765	3600	140
CA400D	offset pattern dipole	380-410	5	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	290	680	34
CA400B2	bidirectional broadside	380-410	6	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	430	1630	68
CA400C2	offset pattern collinear	380-410	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1140	1630	68
CA400C3	offset pattern collinear	380-410	10	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1900	2580	102
CA400B4	bidirectional stacked broadside	380-410	9	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1240	3530	136
CA400C4	offset pattern collinear	380-410	11	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2660	3530	136
CA400N4	cardioid pattern notch	380-410	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2660	3530	136

1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
CA420D	offset pattern dipole	405-440	5	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	285	675	33
CA420B2	bidirectional broadside	405-440	6	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	415	1605	66
CA420C2	offset pattern collinear	405-440	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1070	1605	66
CA420C3	offset pattern collinear	405-440	10	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1780	2535	99
CA420B4	bidirectional stacked broadside	405-440	9	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1165	3465	132
CA420C4	offset pattern collinear	405-440	11	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2490	3465	132
CA420N4	cardioid pattern notch	405-440	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2490	3465	132
CA450D	offset pattern dipole	440-475	5	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	275	670	32
CA450B2	bidirectional broadside	440-475	6	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	390	1590	64
CA450C2	offset pattern collinear	440-475	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	985	1590	64
CA450C3	offset pattern collinear	440-475	10	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1640	2510	96
CA450B4	bidirectional stacked broadside	440-475	9	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1080	3430	128
CA450C4	offset pattern collinear	440-475	11	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2295	3430	128
CA450N4	cardioid pattern notch	440-475	8	vertical	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2295	3430	128
CA840D	offset pattern dipole	806-870	5	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	215	640	26
CA840B2	bidirectional broadside	806-870	6	vertical	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	280	1500	52
CA840C2	offset pattern collinear	806-870	8	vertical	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	550	1500	52
CA840C3	offset pattern collinear	806-870	10	vertical	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	910	2330	75
CA840B4	bidirectional stacked broadside	806-870	9	vertical	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	645	3220	104
CA840C4	offset pattern collinear	806-870	11	vertical	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1265	3220	104
CA860D	offset pattern dipole	830-890	5	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	210	630	25
CA860B2	bidirectional broadside	830-890	6	vertical	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	270	1480	50
CA860C2	offset pattern collinear	830-890	8	vertical	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	530	1480	50
CA860C3	offset pattern collinear	830-890	10	vertical	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	880	2330	75
CA860B4	bidirectional stacked broadside	830-890	9	vertical	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	625	3180	100
CA860C4	offset pattern collinear	830-890	11	vertical	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1225	3180	100
CA930D	offset pattern dipole	880-960	5	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	205	620	25
CA930B2	bidirectional broadside	880-960	6	vertical	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	255	1455	50
CA930C2	offset pattern collinear	880-960	8	vertical	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	492	1455	50
CA930C3	offset pattern collinear	880-960	10	vertical	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	820	2290	75
CA930B4	bidirectional stacked broadside	880-960	9	vertical	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	587	3125	100
CA930C4	offset pattern collinear	880-960	11	vertical	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1136	3125	100
CAVHF/UHFD	offset pattern dual band dipole	50-300/ 300-3000 f_0 ±2-4%	5/5	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	depends on center frequencies		

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1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
Yagis and arrays												
CA140Y	directional yagi	135-145	6	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	570	1025	84
CA140Y+	directional yagi	135-145	8	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1430	1490	171
CA140F2+	directional end fire yagi array	135-145	7	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2765	3430	342
CA140S2	directional stacked yagi array	135-145	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3220	2500	168
CA140S2+	directional stacked yagi array	135-145	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3300	3430	342
CA140S3	directional stacked yagi array	135-145	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	5360	3975	252
CA140S4	directional stacked yagi array	135-145	12	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	7500	5450	336
CA150Y	directional yagi	144-156	6	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	540	990	80
CA150Y+	directional yagi	144-156	8	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1340	1420	160
CA150F2+	directional end fire yagi array	144-156	7	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2585	3240	320
CA150S2	directional stacked yagi array	144-156	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3005	2380	160
CA150S2+	directional stacked yagi array	144-156	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3010	3240	320
CA150S3	directional stacked yagi array	144-156	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	5005	3770	240
CA150S4	directional stacked yagi array	144-156	12	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	7005	5160	320
CA160Y	directional yagi	154-166	6	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	515	960	76
CA160Y+	directional yagi	154-166	8	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1265	1370	151
CA160F2+	directional end fire yagi array	154-166	7	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2435	3130	302
CA160S2	directional stacked yagi array	154-166	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2820	2310	152
CA160S2+	directional stacked yagi array	154-166	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2885	3130	302
CA160S3	directional stacked yagi array	154-166	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	4695	3660	228
CA160S4	directional stacked yagi array	154-166	12	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	6570	5010	304
CA170Y	directional yagi	163-177	6	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	495	880	73
CA170Y+	directional yagi	163-177	8	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1200	1320	143
CA170F2+	directional end fire yagi array	163-177	7	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2310	3015	286
CA170S2	directional stacked yagi array	163-177	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2650	2135	146
CA170S2+	directional stacked yagi array	163-177	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2715	3015	286
CA170S3	directional stacked yagi array	163-177	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	4415	3390	219
CA170S4	directional stacked yagi array	163-177	12	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	6180	4645	292

1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
CADABY	directional yagi	174-240	5	vertical/horizontal	N-/ 7/16-female	<2.0	ABS/FG, PU foam	copper	Ø 35-60	480	985	84
CADABY++	directional yagi	174-240	8/11	vertical/horizontal	N-/ 7/16-female	<1.8	ABS/FG, PU foam	copper	Ø 35-60	1365	1555	184
CA230Y	directional yagi	221-239	6	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	405	810	58
CA230Y+	directional yagi	221-239	8	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	925	1120	110
CA230F2+	directional end fire yagi array	221-239	7	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1755	2580	220
CA230S2	directional stacked yagi array	221-239	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1965	1960	116
CA230S2+	directional stacked yagi array	221-239	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2010	2580	220
CA230S3	directional stacked yagi array	221-239	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3270	3110	174
CA230S4	directional stacked yagi array	221-239	12	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	4570	4260	232
CA340Y	directional yagi	326-353	6	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	320	740	45
CA340Y+	directional yagi	326-353	8	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	675	950	79
CA340Y++	directional yagi	326-353	10	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1040	1140	111
CA340Y+++	directional yagi	326-353	11	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1420	1350	145
CA340Y++++	directional yagi	326-353	12	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1830	1550	179
CA340F2+	directional end fire yagi array	326-353	7	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1255	2190	158
CA340F2++	directional end fire yagi array	326-353	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1985	2570	222
CA340F2+++	directional end fire yagi array	326-353	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2745	2990	290
CA340F2++++	directional end fire yagi array	326-353	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3565	3390	358
CA340S2	directional stacked yagi array	326-353	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1330	1770	90
CA340S2+	directional stacked yagi array	326-353	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1385	2190	158
CA340S2++	directional stacked yagi array	326-353	13	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1385	2570	222
CA340S2+++	directional stacked yagi array	326-353	13.5	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1385	2990	290
CA340S2++++	directional stacked yagi array	326-353	14	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1390	3390	358
CA340S3	directional stacked yagi array	326-353	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2215	2800	135
CA340S4	directional stacked yagi array	326-353	12	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3100	3830	180

1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
CA350Y	directional yagi	336-364	6	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	310	730	44
CA350Y+	directional yagi	336-364	8	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	650	940	76
CA350Y++	directional yagi	336-364	10	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1010	1110	108
CA350Y+++	directional yagi	336-364	11	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1380	1310	141
CA350Y++++	directional yagi	336-364	12	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1775	1540	174
CA350F2+	directional end fire yagi array	336-364	7	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1205	2170	152
CA350F2++	directional end fire yagi array	336-364	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1925	2510	216
CA350F2+++	directional end fire yagi array	336-364	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2665	2910	282
CA350F2++++	directional end fire yagi array	336-364	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3455	3370	348
CA350S2	directional stacked yagi array	336-364	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1290	1750	88
CA350S2+	directional stacked yagi array	336-364	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1340	2170	152
CA350S2++	directional stacked yagi array	336-364	13	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1340	2510	216
CA350S2+++	directional stacked yagi array	336-364	13.5	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1340	2910	282
CA350S2++++	directional stacked yagi array	336-364	14	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1350	3370	348
CA350S3	directional stacked yagi array	336-364	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2145	2770	132
CA350S4	directional stacked yagi array	336-364	12	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3000	3790	176
CA380Y	directional yagi	365-395	6	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	300	735	42
CA380Y+	directional yagi	365-395	8	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	615	905	72
CA380Y++	directional yagi	365-395	10	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	940	1085	101
CA380Y+++	directional yagi	365-395	11	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1285	1270	132
CA380Y++++	directional yagi	365-395	12	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1650	1440	161
CA380F2+	directional end fire yagi array	365-395	7	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1135	2090	144
CA380F2++	directional end fire yagi array	365-395	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1780	2450	202
CA380F2+++	directional end fire yagi array	365-395	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2475	2820	264
CA380F2++++	directional end fire yagi array	365-395	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3205	3160	322
CA380S2	directional stacked yagi array	365-395	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1190	1750	84
CA380S2+	directional stacked yagi array	365-395	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1235	2090	144
CA380S2++	directional stacked yagi array	365-395	13	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1235	2450	202
CA380S2+++	directional stacked yagi array	365-395	13.5	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1235	2820	264
CA380S2++++	directional stacked yagi array	365-395	14	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1245	3160	322
CA380S3	directional stacked yagi array	365-395	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1980	2765	126
CA380S4	directional stacked yagi array	365-395	12	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2770	3780	168

1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
CA400Y	directional yagi	380-410	6	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	290	720	41
CA400Y+	directional yagi	380-410	8	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	600	905	70
CA400Y++	directional yagi	380-410	10	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	900	1055	98
CA400Y+++	directional yagi	380-410	11	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1240	1260	126
CA400Y++++	directional yagi	380-410	12	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1590	1410	155
CA400Y+++++	directional yagi	380-410	13	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1725	1555	174
CA400F2+	directional end fire yagi array	380-410	7	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1105	2080	140
CA400F2++	directional end fire yagi array	380-410	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1705	2380	196
CA400F2+++	directional end fire yagi array	380-410	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2385	2790	252
CA400F2++++	directional end fire yagi array	380-410	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3085	3090	310
CA400F2+++++	directional end fire yagi array	380-410	12	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3355	3380	348
CA400S2	directional stacked yagi array	380-410	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1145	1710	82
CA400S2+	directional stacked yagi array	380-410	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1180	2080	140
CA400S2++	directional stacked yagi array	380-410	13	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1180	2380	196
CA400S2+++	directional stacked yagi array	380-410	13.5	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1180	2790	252
CA400S2++++	directional stacked yagi array	380-410	14	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1195	3090	310
CA400S2+++++	directional stacked yagi array	380-410	15	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1170	3380	348
CA400S3	directional stacked yagi array	380-410	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1905	2700	123
CA400S4	directional stacked yagi array	380-410	12	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2665	3690	164
CA420Y	directional yagi	405-440	6	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	285	715	39
CA420Y+	directional yagi	405-440	8	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	570	880	66
CA420Y++	directional yagi	405-440	10	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	865	1035	92
CA420Y+++	directional yagi	405-440	11	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1170	1120	119
CA420Y++++	directional yagi	405-440	12	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1500	1370	146
CA420Y+++++	directional yagi	405-440	13	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1815	1540	173
CA420F2+	directional end fire yagi array	405-440	7	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1045	2015	132
CA420F2++	directional end fire yagi array	405-440	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1630	2325	184
CA420F2+++	directional end fire yagi array	405-440	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2245	2495	238
CA420F2++++	directional end fire yagi array	405-440	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2905	2995	292
CA420F2+++++	directional end fire yagi array	405-440	12	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3535	3335	346
CA420S2	directional stacked yagi array	405-440	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1070	1685	78
CA420S2+	directional stacked yagi array	405-440	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1115	2015	132
CA420S2++	directional stacked yagi array	405-440	13	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1115	2325	184
CA420S2+++	directional stacked yagi array	405-440	13.5	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1115	2495	238
CA420S2++++	directional stacked yagi array	405-440	14	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1120	2995	292
CA420S2+++++	directional stacked yagi array	405-440	15	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1120	3335	346
CA420S3	directional stacked yagi array	405-440	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1780	2655	117
CA420S4	directional stacked yagi array	405-440	12	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2490	3625	156

1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
CA450Y	directional yagi	440-475	6	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	275	700	38
CA450Y+	directional yagi	440-475	8	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	535	860	62
CA450Y++	directional yagi	440-475	10	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	800	995	86
CA450Y+++	directional yagi	440-475	11	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1085	1145	110
CA450Y++++	directional yagi	440-475	12	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1385	1300	135
CA450Y+++++	directional yagi	440-475	13	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1675	1460	160
CA450F2+	directional end fire yagi array	440-475	7	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	970	1970	124
CA450F2++	directional end fire yagi array	440-475	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1500	2240	172
CA450F2+++	directional end fire yagi array	440-475	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2075	2540	220
CA450F2++++	directional end fire yagi array	440-475	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2675	2850	270
CA450F2+++++	directional end fire yagi array	440-475	12	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	3255	3170	320
CA450S2	directional stacked yagi array	440-475	9	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	990	1650	76
CA450S2+	directional stacked yagi array	440-475	11	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1030	1970	124
CA450S2++	directional stacked yagi array	440-475	13	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1030	2240	172
CA450S2+++	directional stacked yagi array	440-475	13.5	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1030	2540	220
CA450S2++++	directional stacked yagi array	440-475	14	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1035	2850	270
CA450S2+++++	directional stacked yagi array	440-475	15	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1035	3170	320
CA450S3	directional stacked yagi array	440-475	10	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1645	2600	114
CA450S4	directional stacked yagi array	440-475	12	vertical/horizontal	N-/TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2305	3550	152
CALTEY	directional yagi	690-960	6/7	vertical/horizontal	N-/TNC-/ 7/16-female	<1.5	ABS, PU foam	copper	Ø 35-60	255	680	34
CALTEY+	directional yagi	690-960	7.5/10	vertical/horizontal	N-/TNC-/ 7/16-female	<1.5	ABS, PU foam	copper	Ø 35-60	450	760	54
CALTEY++	directional yagi	690-960	8.5/11.5	vertical/horizontal	N-/TNC-/ 7/16-female	<1.5	ABS, PU foam	copper	Ø 35-60	655	840	70
CA840Y	directional yagi	806-870	6	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	225	665	29
CA840Y+	directional yagi	806-870	8	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	370	730	43
CA840Y++	directional yagi	806-870	10	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	535	800	55
CA840Y+++	directional yagi	806-870	11	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	685	865	68
CA840Y++++	directional yagi	806-870	12	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	850	990	79
CA840S2	directional stacked yagi array	806-870	9	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	560	1550	58
CA840S2+	directional stacked yagi array	806-870	11	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	600	1680	86
CA840S2++	directional stacked yagi array	806-870	13	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	600	1820	110
CA840S2+++	directional stacked yagi array	806-870	13.5	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	600	1950	136
CA840S2++++	directional stacked yagi array	806-870	14	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	600	2200	158
CA840S3	directional stacked yagi array	806-870	10	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	915	2435	87
CA840S4	directional stacked yagi array	806-870	12	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1275	3320	116

1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
CA860Y	directional yagi	830-890	6	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	215	655	28
CA860Y+	directional yagi	830-890	8	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	355	715	41
CA860Y++	directional yagi	830-890	10	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	515	785	53
CA860Y+++	directional yagi	830-890	11	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	660	850	65
CA860Y++++	directional yagi	830-890	12	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	815	925	76
CA860S2	directional stacked yagi array	830-890	9	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	535	1530	56
CA860S2+	directional stacked yagi array	830-890	11	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	575	1650	82
CA860S2++	directional stacked yagi array	830-890	13	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	575	1790	106
CA860S2+++	directional stacked yagi array	830-890	13.5	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	575	1920	130
CA860S2++++	directional stacked yagi array	830-890	14	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	575	2070	152
CA860S3	directional stacked yagi array	830-890	10	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	885	2405	84
CA860S4	directional stacked yagi array	830-890	12	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1235	3280	112
CA930Y	directional yagi	880-960	6	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	210	645	27
CA930Y+	directional yagi	880-960	8	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	340	705	39
CA930Y++	directional yagi	880-960	10	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	485	770	50
CA930Y+++	directional yagi	880-960	11	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	630	835	61
CA930Y++++	directional yagi	880-960	12	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	815	895	73
CA930S2	directional stacked yagi array	880-960	9	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	505	1505	54
CA930S2+	directional stacked yagi array	880-960	11	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	530	1625	78
CA930S2++	directional stacked yagi array	880-960	13	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	530	1755	100
CA930S2+++	directional stacked yagi array	880-960	13.5	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	530	1885	122
CA930S2++++	directional stacked yagi array	880-960	14	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	530	2005	146
CA930S3	directional stacked yagi array	880-960	10	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	830	2365	81
CA930S4	directional stacked yagi array	880-960	12	vertical/horizontal	N-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1155	3225	108
CACELY	directional yagi	880-960/ 1710-2170	6/8	vertical/horizontal	N- / 7/16-female	<1.5	ABS, PU foam	copper	Ø 35-60	230	650	32
CAGNSSY++	directional yagi	1164-1300/ 1559-1610	8/10	vertical/horizontal	N-/ TNC-/ 7/16-female	<1.4	ABS, PU foam	copper	Ø 35-60	755	815	70

1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
Cross-polarized yagis												
CA400X	cross-polarized yagi	380-410	6	dual/circular	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	560	980	63
CA400X+	cross-polarized yagi	380-410	8	dual/circular	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	870	1185	97
CA400X++	cross-polarized yagi	380-410	10	dual/circular	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1150	1440	129
CA400XF2+	cross-polarized end-fire yagi array	380-410	7	dual/circular	N-/ TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1645	2910	194
CA400XF2++	cross-polarized end-fire yagi array	380-410	9	dual/circular	N-/ TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2205	3420	258
CA420X	cross-polarized yagi	405-440	6	dual/circular	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	540	955	60
CA420X+	cross-polarized yagi	405-440	8	dual/circular	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	830	1080	91
CA420X++	cross-polarized yagi	405-440	10	dual/circular	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1120	1400	120
CA420XF2+	cross-polarized end-fire yagi array	405-440	7	dual/circular	N-/ TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1565	2670	182
CA420XF2++	cross-polarized end-fire yagi array	405-440	9	dual/circular	N-/ TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	2145	3310	240
CA450X	cross-polarized yagi	440-475	6	dual/circular	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	520	935	57
CA450X+	cross-polarized yagi	440-475	8	dual/circular	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	780	1150	86
CA450X++	cross-polarized yagi	440-475	10	dual/circular	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1045	1350	113
CA450XF2+	cross-polarized end-fire yagi array	440-475	7	dual/circular	N-/ TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1465	2800	172
CA450XF2++	cross-polarized end-fire yagi array	440-475	9	dual/circular	N-/ TNC-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	1995	3200	226
CA750X	cross-polarized yagi	703-803	6	dual/circular	N-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	400	875	44
CA750X+	cross-polarized yagi	703-803	8	dual/circular	N-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	565	920	62
CA750X++	cross-polarized yagi	703-803	10	dual/circular	N-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	770	1040	79
CA830X	cross-polarized yagi	791-862	6	dual/circular	N-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	385	850	41
CA830X+	cross-polarized yagi	791-862	8	dual/circular	N-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	535	895	56
CA830X++	cross-polarized yagi	791-862	10	dual/circular	N-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	730	1020	70
CA860X	cross-polarized yagi	830-890	6	dual/circular	N-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	380	845	40
CA860X+	cross-polarized yagi	830-890	8	dual/circular	N-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	525	890	55
CA860X++	cross-polarized yagi	830-890	10	dual/circular	N-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	700	1015	68
CA930X	cross-polarized yagi	880-960	6	dual/circular	N-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	370	830	39
CA930X+	cross-polarized yagi	880-960	8	dual/circular	N-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	500	860	52
CA930X++	cross-polarized yagi	880-960	10	dual/circular	N-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	650	930	64

1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
Omnidirectionals												
CA70GP	omnidirectional ground plane	68-72	2	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	990	1800	76
CA75GP	omnidirectional ground plane	73-77	2	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	930	1700	73
CA80GP	omnidirectional ground plane	77-81	2	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	880	1650	70
CA85GP	omnidirectional ground plane	83-87	2	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	820	1600	67
CAAIRGP	omnidirectional ground plane	118-137	2	vertical	N-/TNC-female	<2.0	FG, PU foam	copper	Ø 35-60	560	1360	52
CA140GP	omnidirectional ground plane	135-145	2	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	510	1300	49
CA150GP	omnidirectional ground plane	144-156	2	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	485	1260	47
CA160GP	omnidirectional ground plane	154-166	2	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	455	1235	46
CA170GP	omnidirectional ground plane	163-177	2	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	430	1210	45
CA350GP	omnidirectional ground plane	336-364	2	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	235	1000	34
CA410GP	omnidirectional ground plane	380-430	2	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	210	955	32
CA450GP	omnidirectional ground plane	430-475	2	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	190	945	31
CA860GP	omnidirectional ground plane	830-890	2	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	90	835	25
CA930GP	omnidirectional ground plane	880-960	2	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	90	835	25
CA2400GP	omnidirectional ground plane	2300-2500	2	vertical	N-female	<1.5	PP, PU foam	copper	Ø 35-60	90	490	25
CA5400GP	omnidirectional ground plane	5150-5725	2	vertical	N-female	<1.5	PP, PU foam	copper	Ø 35-60	90	490	25
CA350GP+	omnidirectional ground plane	336-364, f_0 ±1%	6	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	580	1230	50
CA405GP+	omnidirectional ground plane	401-409	6	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	470	1030	46
CA410GP+	omnidirectional ground plane	406-414	6	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	465	1030	45
CA420GP+	omnidirectional ground plane	416-424	6	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	450	1030	45
CA430GP+	omnidirectional ground plane	426-434	6	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	440	1025	44
CA435GP+	omnidirectional ground plane	431-439	6	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	435	1020	44
CA440GP+	omnidirectional ground plane	436-444	6	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	430	1015	43
CA445GP+	omnidirectional ground plane	441-449	6	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	425	1015	43
CA450GP+	omnidirectional ground plane	446-454	6	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	420	1015	43
CA460GP+	omnidirectional ground plane	456-464	6	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	410	1010	42
CA470GP+	omnidirectional ground plane	465-475	6	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	400	1010	42
CA870GP+	omnidirectional ground plane	860-880	6	vertical	N-/TNC-female	<1.5	FG, PU foam	copper	Ø 35-60	215	885	32
CA2450GP+	omnidirectional ground plane	2412-2484	6	vertical	N-female	<1.5	FG, PU foam	copper	Ø 35-60	115	525	26

1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
CA340O	omnidirectional coaxial dipole	326-353	2	vertical	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	800	795	55
CA350O	omnidirectional coaxial dipole	336-364	2	vertical	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	770	790	55
CA400O	omnidirectional coaxial dipole	380-410	2	vertical	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	695	780	49
CA420O	omnidirectional coaxial dipole	405-440	2	vertical	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	655	765	47
CA450O	omnidirectional coaxial dipole	440-475	2	vertical	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	615	750	44
CA860O	omnidirectional coaxial dipole	830-890	2	vertical	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	375	655	31
CA930O	omnidirectional coaxial dipole	880-960	2	vertical	N-/ TNC-/ 7/16-female	<1.5	ABS/FG, PU foam	copper	Ø 35-60	360	645	30
CA230V	vehicular antenna	221-239	2	vertical	N-female	<1.5	FG, PU foam	copper	4 pcs M5*20	345	345	22
CA350V	vehicular antenna	336-364	2	vertical	N-female	<1.5	FG, PU foam	copper	4 pcs M5*20	225	300	15
CA380V	vehicular antenna	370-390	2	vertical	N-female	<1.5	FG, PU foam	copper	4 pcs M5*20	200	290	14
CA390V	vehicular antenna	380-400	2	vertical	N-female	<1.5	FG, PU foam	copper	4 pcs M5*20	195	290	14
CA420V	vehicular antenna	405-440	2	vertical	N-female	<1.5	FG, PU foam	copper	4 pcs M5*20	185	285	13
CA450V	vehicular antenna	440-475	2	vertical	N-female	<1.5	FG, PU foam	copper	4 pcs M5*20	170	280	13
CA830V	vehicular antenna	791-862	2	vertical	N-female	<1.5	FG, PU foam	copper	4 pcs M5*20	90	210	7
CA860V	vehicular antenna	830-890	2	vertical	N-female	<1.5	FG, PU foam	copper	4 pcs M5*20	90	210	7
CA930V	vehicular antenna	880-960	2	vertical	N-female	<1.5	FG, PU foam	copper	4 pcs M5*20	90	210	7
CA2400V	vehicular antenna	2300-2500	2	vertical	N-female	<1.5	FG, PU foam	copper	4 pcs M5*20	90	210	7
CA5400V	vehicular antenna	5150-5725	2	vertical	N-female	<1.5	FG, PU foam	copper	4 pcs M5*20	90	210	7

1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
Portables												
CA230Q	sleeve fed quarter wave whip	225-235	2	vertical	BNC-/N-/SMA-/TNC-male	<1.5	PE	copper	-	300	70	-
CA350Q	sleeve fed quarter wave whip	336-364	2	vertical	BNC-/N-/SMA-/TNC-male	<1.5	PE	copper	-	205	60	-
CA380Q	sleeve fed quarter wave whip	370-390	2	vertical	BNC-/N-/SMA-/TNC-male	<1.5	PE	copper	-	180	50	-
CA390Q	sleeve fed quarter wave whip	380-400	2	vertical	BNC-/N-/SMA-/TNC-male	<1.5	PE	copper	-	175	50	-
CA420Q	sleeve fed quarter wave whip	405-440	2	vertical	BNC-/N-/SMA-/TNC-male	<1.5	PE	copper	-	170	50	-
CA450Q	sleeve fed quarter wave whip	440-475	2	vertical	BNC-/N-/SMA-/TNC-male	<1.5	PE	copper	-	155	50	-
CA860Q	sleeve fed quarter wave whip	830-890	2	vertical	SMA-male	<1.5	PE	copper	-	75	10	-
CA930Q	sleeve fed quarter wave whip	880-960	2	vertical	SMA-male	<1.5	PE	copper	-	70	10	-
CA870H	center fed half wave whip	860-880	5	vertical	BNC-/N-/SMA-/TNC-male	<1.5	PE	copper	-	205	75	-
CA915H	center fed half wave whip	900-930	5	vertical	BNC-/N-/SMA-/TNC-male	<1.5	PE	copper	-	195	64	-
CA2400H	center fed half wave whip	2400-2500	5	vertical	SMA-male	<1.5	PE	copper	-	105	15	-
BNC-F – BNC-M_90°	coaxial adaptor, 90° angle	DC-1000	-	-	BNC-female – BNC-male	<1.2	-	-	-	20	20	-
N-F – N-M_90°	coaxial adaptor, 90° angle	DC-1100	-	-	N-female – N-male	<1.2	-	-	-	40	70	-
SMA-F – SMA-M_90°	coaxial adaptor, 90° angle	DC-1800	-	-	SMA-female – SMA-male	<1.2	-	-	-	10	10	-
TNC-F – TNC-M_90°	coaxial adaptor, 90° angle	DC-1000	-	-	TNC-female – TNC-male	<1.2	-	-	-	20	20	-

1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
Reflectors												
CA2400R	reflector monopole	2300-2500	12	vertical/horizontal	N-female	<1.5	PP, PU foam	copper	Ø 35-60	90	690	25

1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
Lightning protectors												
LP80	quarter wave lightning protector	70-90	-	-	N-female – N-male/ TNC-female – TNC-male	<1.2	-	-	M8	690	250	-
LP130	quarter wave lightning protector	115-140	-	-	N-female – N-male/ TNC-female – TNC-male	<1.2	-	-	M8	465	205	-
LP140	quarter wave lightning protector	126-154	-	-	N-female – N-male/ TNC-female – TNC-male	<1.2	-	-	M8	430	195	-
LP150	quarter wave lightning protector	144-176	-	-	N-female – N-male/ TNC-female – TNC-male/ UHF-female – UHF-male	<1.2	-	-	M8	390	190	-
LP230	quarter wave lightning protector	210-250	-	-	N-female – N-male/ TNC-female – TNC-male	<1.2	-	-	M8	290	170	-
LP350	quarter wave lightning protector	315-385	-	-	N-female – N-male/ TNC-female – TNC-male	<1.2	-	-	M8	220	150	-
LP400	quarter wave lightning protector	380-475	-	-	N-female – N-male/ TNC-female – TNC-male	<1.2	-	-	M8	190	150	-
LP830	quarter wave lightning protector	770-890	-	-	N-female – N-male	<1.2	-	-	M8	135	135	-
LP900	quarter wave lightning protector	830-960	-	-	N-female – N-male/ TNC-female – TNC-male	<1.2	-	-	M8	130	130	-
LP2400	quarter wave lightning protector	2300-2500	-	-	N-female – N-male/ TNC-female – TNC-male	<1.2	-	-	M8	130	140	-
LR2000	lightning rod support	-	-	-	1*16mm2 – 2*25 mm2	-	FG, PU foam	-	Ø 35-60	2000	1400	-
GC16	grounding cable 16 mm2	-	-	-	M8 cable lug	-	-	-	M8	-	180/m	-
GS48	grounding strip Ø 48 mm	-	-	-	1*16mm2 – 2*25 mm2	-	-	-	Ø 17-48	70	60	-
SG	spark gap 100 kA	-	-	-	M10	-	-	-	M10	170	270	-

1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
Power splitters												
CS85	power combiner/splitter	80-90	-	-	N-female – 2*N-male/ TNC-female – 2*TNC-male	<1.5	-	-	-	8130	620	-
CS140	power combiner/splitter	135-145	-	-	N-female – 2*N-male/ TNC-female – 2*TNC-male	<1.5	-	-	-	4970	450	-
CS150	power combiner/splitter	144-156	-	-	N-female – 2*N-male/ TNC-female – 2*TNC-male	<1.5	-	-	-	4640	400	-
CS160	power combiner/splitter	154-166	-	-	N-female – 2*N-male/ TNC-female – 2*TNC-male	<1.5	-	-	-	4350	390	-
CS170	power combiner/splitter	163-177	-	-	N-female – 2*N-male/ TNC-female – 2*TNC-male	<1.5	-	-	-	4090	375	-
CS230	power combiner/splitter	221-239	-	-	N-female – 2*N-male/ TNC-female – 2*TNC-male	<1.5	-	-	-	3030	340	-
CS340	power combiner/splitter	326-353	-	-	N-female – 2*N-male/ TNC-female – 2*TNC-male	<1.5	-	-	-	2060	290	-
CS350	power combiner/splitter	336-364	-	-	N-female – 2*N-male/ TNC-female – 2*TNC-male	<1.5	-	-	-	2000	290	-
CS380	power combiner/splitter	365-395	-	-	N-female – 2*N-male/ TNC-female – 2*TNC-male	<1.5	-	-	-	1840	280	-
CS400	power combiner/splitter	380-410	-	-	N-female – 2*N-male/ TNC-female – 2*TNC-male	<1.5	-	-	-	1770	270	-
CS420	power combiner/splitter	405-440	-	-	N-female – 2*N-male/ TNC-female – 2*TNC-male	<1.5	-	-	-	1660	255	-
CS450	power combiner/splitter	440-475	-	-	N-female – 2*N-male/ TNC-female – 2*TNC-male	<1.5	-	-	-	1530	250	-
CS750	power combiner/splitter	703-803	-	-	N-female – 2*N-male	<1.5	-	-	-	990	225	-
CS830	power combiner/splitter	791-862	-	-	N-female – 2*N-male	<1.5	-	-	-	895	220	-
CS840	power combiner/splitter	806-870	-	-	N-female – 2*N-male	<1.5	-	-	-	885	220	-
CS860	power combiner/splitter	830-890	-	-	N-female – 2*N-male	<1.5	-	-	-	865	220	-
CS930	power combiner/splitter	880-960	-	-	N-female – 2*N-male	<1.5	-	-	-	805	215	-
CS2450	power combiner/splitter	2412-2484	-	-	N-female – 2*N-male	<1.5	-	-	-	745	215	-
RH	ring hybrid combiner/splitter	f_0 ±3.8%	-	-	4*N-female	<1.2	-	-	-	-	-	-

1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

Product (1)	Description	Frequency MHz	Gain dBi	Polarization	Connector (2)	VSWR	Radome	Radiator	Mounting mm	Length mm	Weight g	Wind load (3) N
Accessories												
CP60	cross mount plate	-	-	-	-	-	-	-	Ø 35-60	170	785	-
CP120	cross mount plate	-	-	-	-	-	-	-	Ø 35-60/60-120	170	785	-
FAP600	ferrite absorber panel	30-1000								600	12500	
HAP600	hybrid absorber panel	1000-40000								600	15500	
IT150	antenna circuit impedance tuner	100-200	-	-	N-female – N-male	=1.0	-	-	-	95	135	-
IT400	antenna circuit impedance tuner	300-500	-	-	N-female – N-male	=1.0	-	-	-	95	135	-
MA5/8	mounting adaptor for 5/8 inch thread	-	-	-	5/8 inch	-	-	-	4*M8	100	270	-
RK100	10 dB additional isolation kit	88-108	-	-	-	-	-	-	Ø 35-60	1820	1200	-
RK150	10 dB additional isolation kit	138-161	-	-	-	-	-	-	Ø 35-60	1200	1010	-
RK160	10 dB additional isolation kit	154-166	-	-	-	-	-	-	Ø 35-60	1090	980	-
RK380	10 dB additional isolation kit	350-410	-	-	-	-	-	-	Ø 35-60	540	810	-
RK420	10 dB additional isolation kit	380-450	-	-	-	-	-	-	Ø 35-60	510	800	-
RK440	10 dB additional isolation kit	405-475	-	-	-	-	-	-	Ø 35-60	480	790	-
RK860	10 dB additional isolation kit	830-890	-	-	-	-	-	-	Ø 35-60	290	730	-
SM500	side mount	-	-	-	-	-	-	-	Ø 35-60/60-120	500	3000	-
TM1	50 ohm termination, 1 W	0-4000	-	-	N-male	<1.04	-	-	-	20	25	-
TM5	50 ohm termination, 5 W	0-7000	-	-	N-male	<1.05	-	-	-	35	45	-
TM10	50 ohm termination, 10 W	0-18000	-	-	N-male	<1.02	-	-	-	65	160	-
TM25	50 ohm termination, 25 W	0-2000	-	-	N-male	<1.1	-	-	-	75	120	-
TP60	mechanical tilting plate	-	-	-	-	-	-	-	Ø 35-60	170	700	-
TP120	mechanical tilting plate	-	-	-	-	-	-	-	Ø 60-120	170	970	-
VS60	V-bolt set Ø 60 mm	-	-	-	M8	-	-	-	Ø 35-60	68	165	-
VS120	V-bolt set Ø 120 mm	-	-	-	M8	-	-	-	Ø 60-120	128	270	-

1) Add connector type -BNC/-N /-SMA/-TNC/-7/16 to product code

2) Additional charge for 7/16 connector

3) Wind load @ 150 km/h

4) Prices are EXW, without liability for changes

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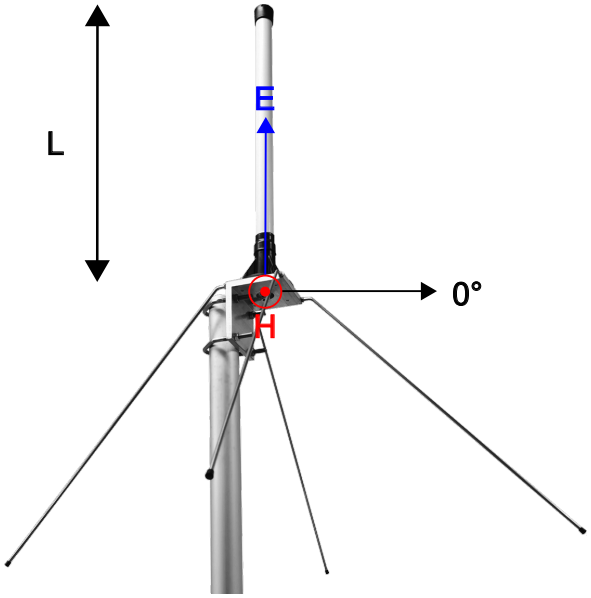
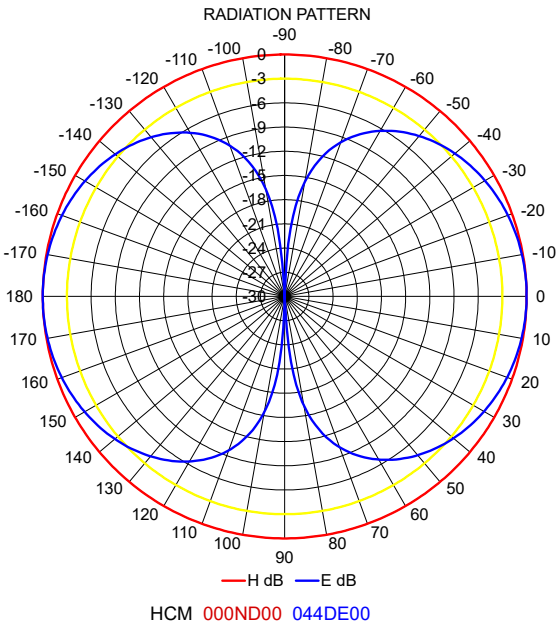


FREQUENCY INDEPENDENT DATA

Description:	omnidirectional ground plane
Frequency:	117.975 - 137.000 MHz
Impedance:	50 ohm
Gain:	2 dBi
H -3 dB:	
E -3 dB:	87º
F/B:	0 dB
Polarization:	vertical
Connector:	N-female/TNC-female
VSWR:	< 1.5
Radome:	UV resistant FG, white / PP, black PU foam filling
Radiator:	copper
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited, DC-grounded
Temperature:	-40ºC - +80ºC
IP:	67

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *UV protected glass fibre radome*
- *DC shorted and grounded feed point*
- *integrated impedance compensation*



CAAIRGP OMNIDIRECTIONAL GROUND PLANE

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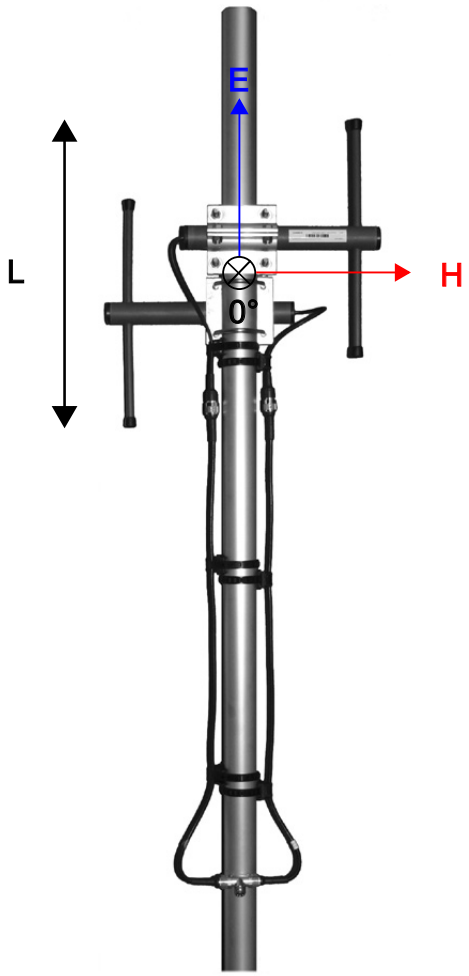
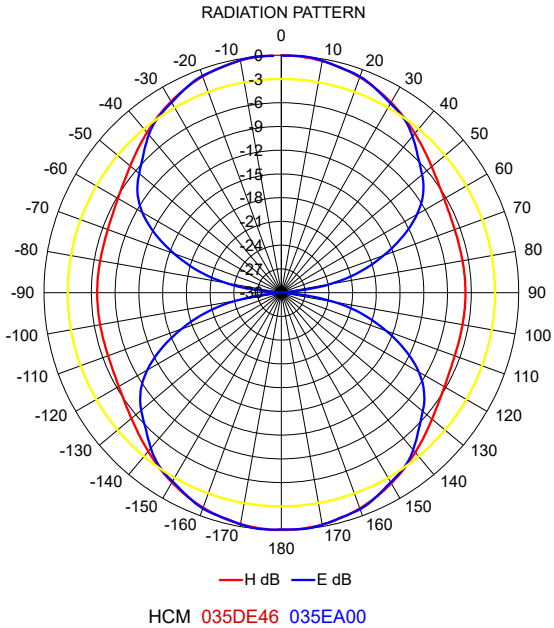


FREQUENCY INDEPENDENT DATA

Description:	bidirectional broadside
Frequency:	83-88 MHz, 135-145 MHz, 144-156 MHz, 154-166 MHz, 163-177 MHz, 221-239 MHz, 326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	6 dBi
H -3 dB:	71º
E -3 dB:	69º
F/B:	0 dB
Polarization:	vertical
Connector:	N-female / TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



HCM 035DE46 035EA00

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

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CAB2 BIDIRECTIONAL BROADSIDE

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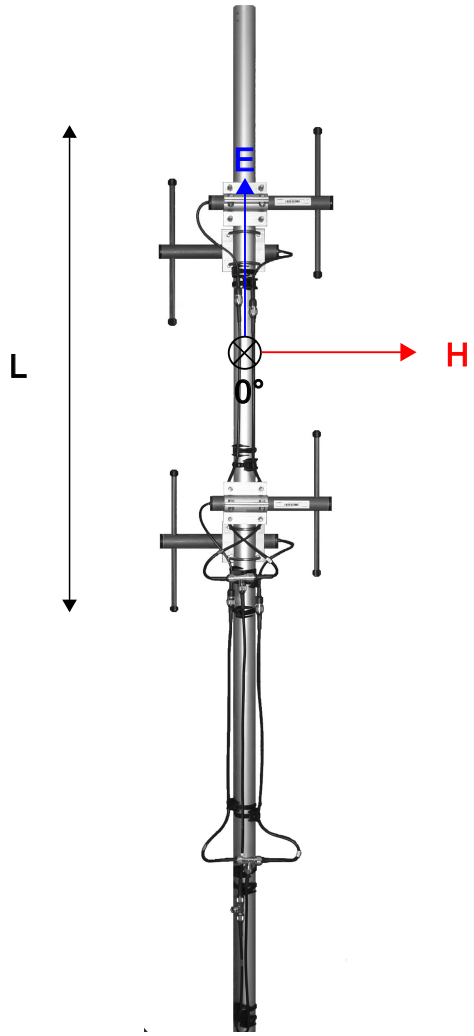
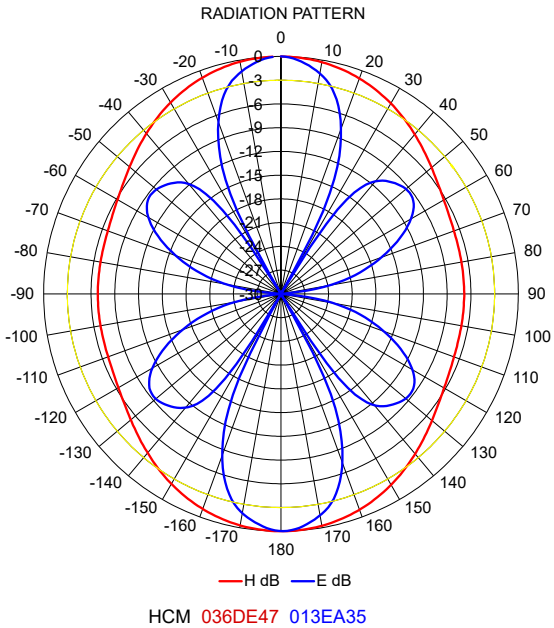


FREQUENCY INDEPENDENT DATA

Description:	bidirectional stacked broadside, field adjustable pattern, optional beam tilting
Frequency:	83-88 MHz, 135-145 MHz, 144-156 MHz, 154-166 MHz, 163-177 MHz, 221-239 MHz, 326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	9 dBi
H -3 dB:	71°
E -3 dB:	27°
F/B:	0 dB
Polarization:	vertical/horizontal
Connector:	N-female / TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAB4 BIDIRECTIONAL STACKED BROADSIDE

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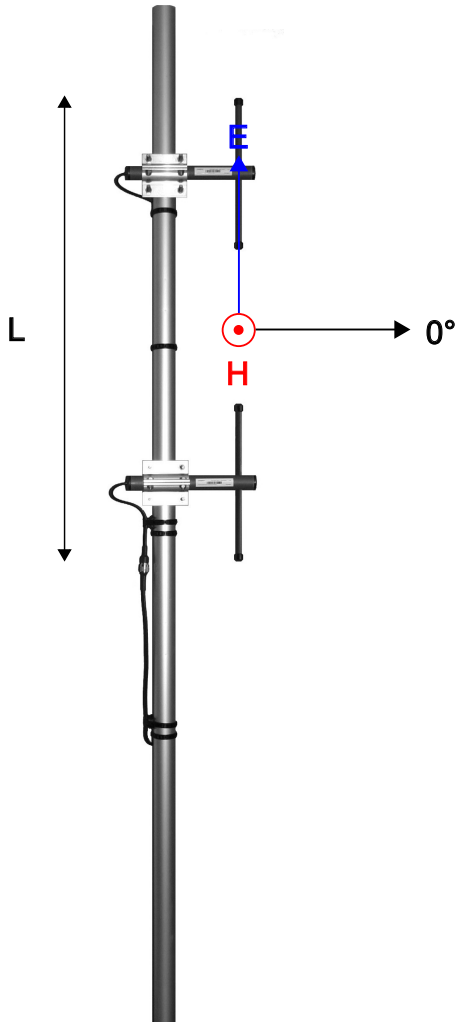
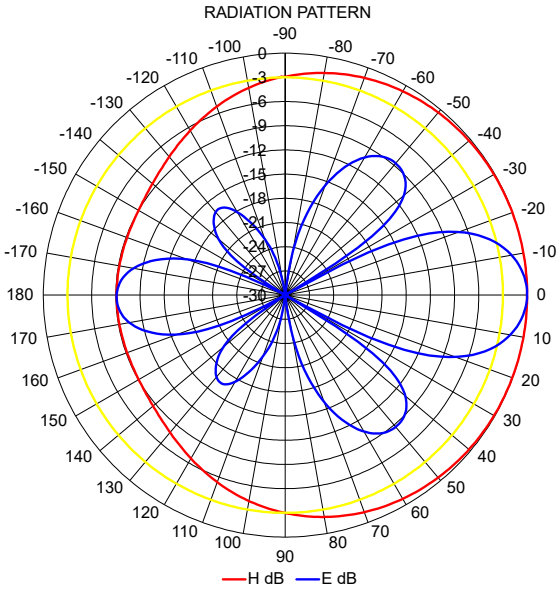


FREQUENCY INDEPENDENT DATA

Description:	offset pattern collinear, field adjustable pattern, optional beam tilting
Frequency:	83-88 MHz, 135-145 MHz, 144-156 MHz, 154-166 MHz, 163-177 MHz, 221-239 MHz, 326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	8 dBi
H -3 dB:	181º
E -3 dB:	27º
F/B:	5-10 dB, depending on mounting
Polarization:	vertical
Connector:	N-female / TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



HCM 091EC35 014EA35

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAC2 OFFSET PATTERN COLLINEAR

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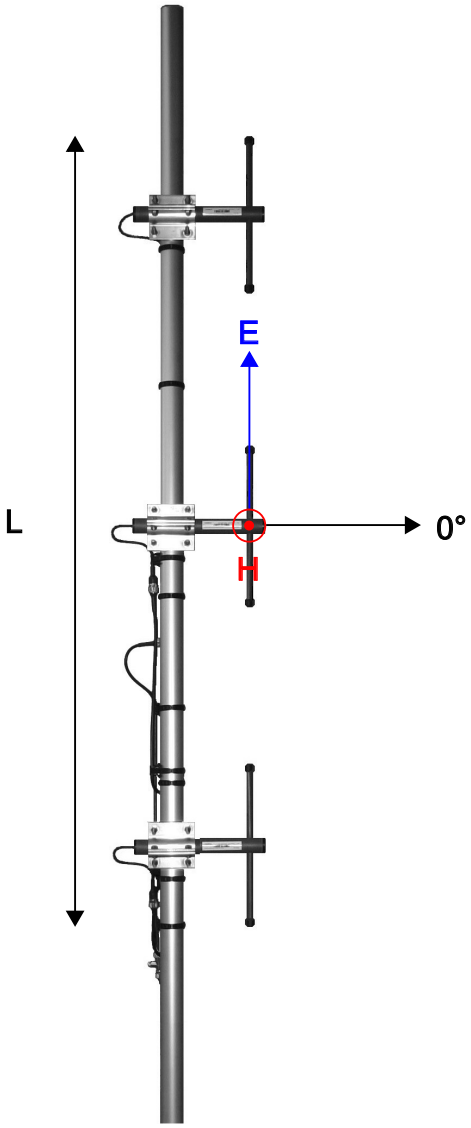
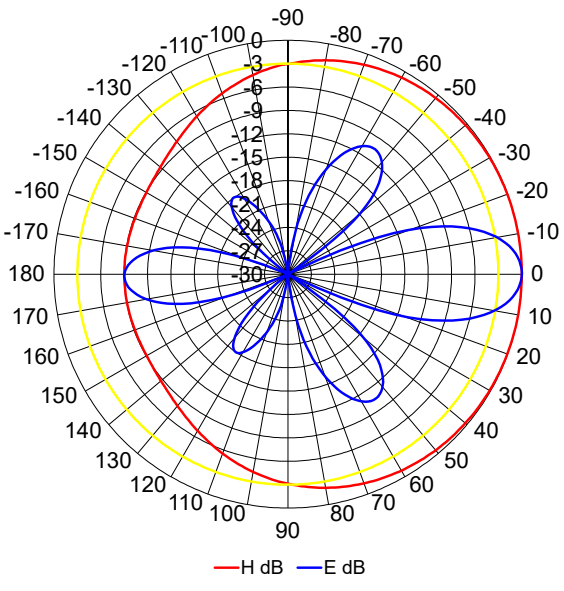


FREQUENCY INDEPENDENT DATA

Description:	offset pattern collinear, triangular feed, field adjustable pattern, optional beam tilting
Frequency:	83-88 MHz, 135-145 MHz, 144-156 MHz, 154-166 MHz, 163-177 MHz, 221-239 MHz, 326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	10 dBi
H -3 dB:	179º
E -3 dB:	20º
F/B:	4-10 dB, depending on mounting
Polarization:	vertical
Connector:	N-female / TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67

RADIATION PATTERN



HCM 089EC35 010EA31

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAC3 OFFSET PATTERN COLLINEAR

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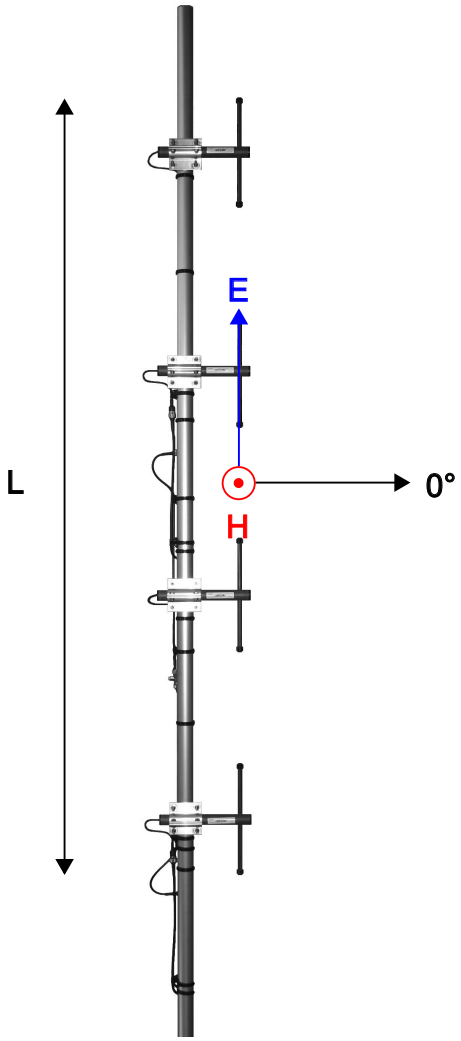
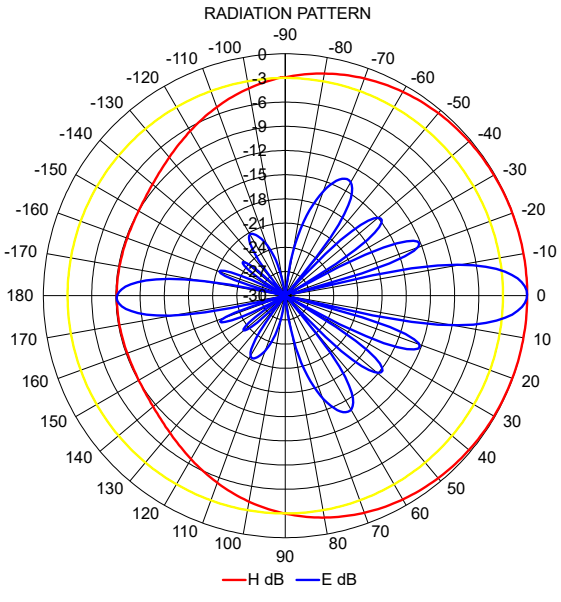


FREQUENCY INDEPENDENT DATA

Description:	offset pattern collinear, field adjustable pattern, optional beam tilting
Frequency:	83-88 MHz, 135-145 MHz, 144-156 MHz, 154-166 MHz, 163-177 MHz, 221-239 MHz, 326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	11 dBi
H -3 dB:	182º
E -3 dB:	13º
F/B:	4-10 dB, depending on mounting
Polarization:	vertical
Connector:	N-female / TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



HCM 091EC35 006EA21

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

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CAC4 OFFSET PATTERN COLLINEAR

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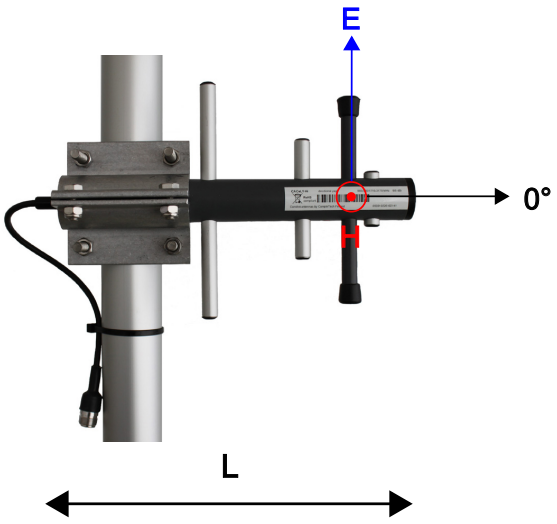
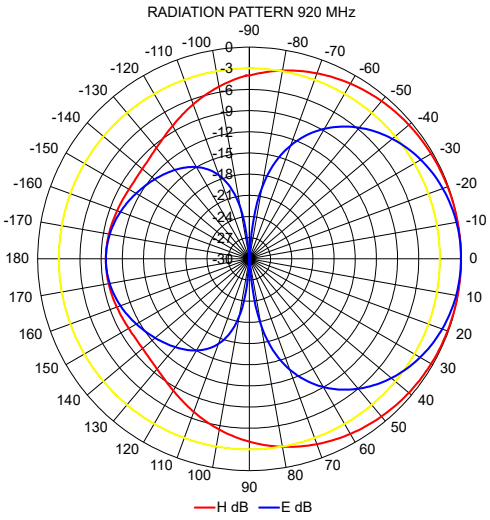


FREQUENCY INDEPENDENT DATA

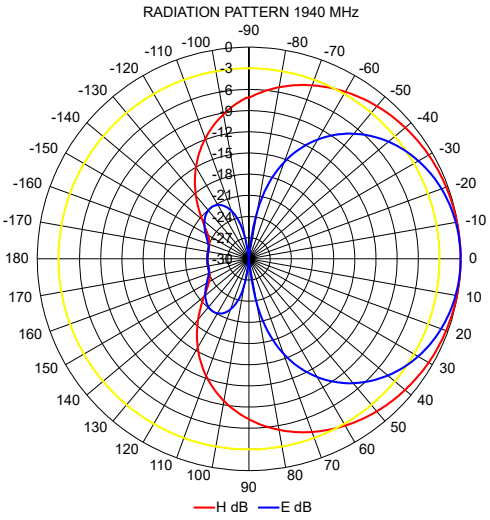
Description:	directional yagi
Frequency:	880-960/1710-2170 MHz
Impedance:	50 ohm
Gain:	6/8 dBi
H -3 dB:	162/126º
E -3 dB:	73/68º
F/B:	10/24 dB
Polarization:	vertical/horizontal
Connector:	N-female / 7/16-female
VSWR:	< 1.5
Radome:	UV resistant ABS, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Temperature:	-40ºC - +80ºC
IP:	67

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *integrated impedance compensation*
- *integrated RF choke*

CACELY DIRECTIONAL YAGI



HCM 081LA32 037EA00



HCM 063LA06 034EA09

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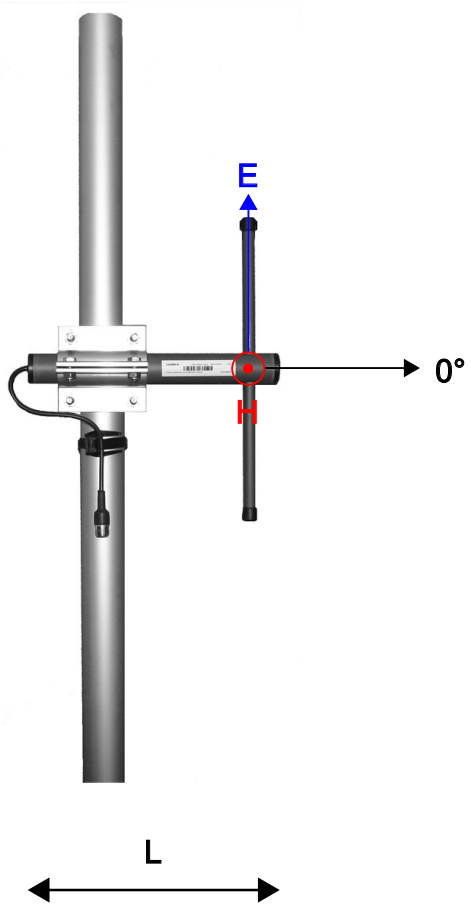
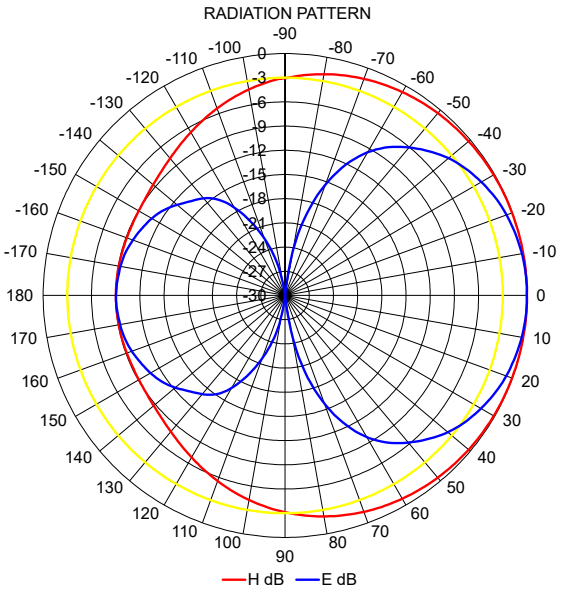


FREQUENCY INDEPENDENT DATA

Description:	offset pattern dipole
Frequency:	83-88 MHz, 135-145 MHz, 144-156 MHz, 154-166 MHz, 163-177 MHz, 221-239 MHz, 326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	5 dBi
H -3 dB:	179º
E -3 dB:	74º
F/B:	6-10 dB, depending on mounting
Polarization:	vertical/horizontal
Connector:	N-/ TNC/ 7/16-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*



HCM 089EC35 037EA00

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CAD OFFSET PATTERN DIPOLE

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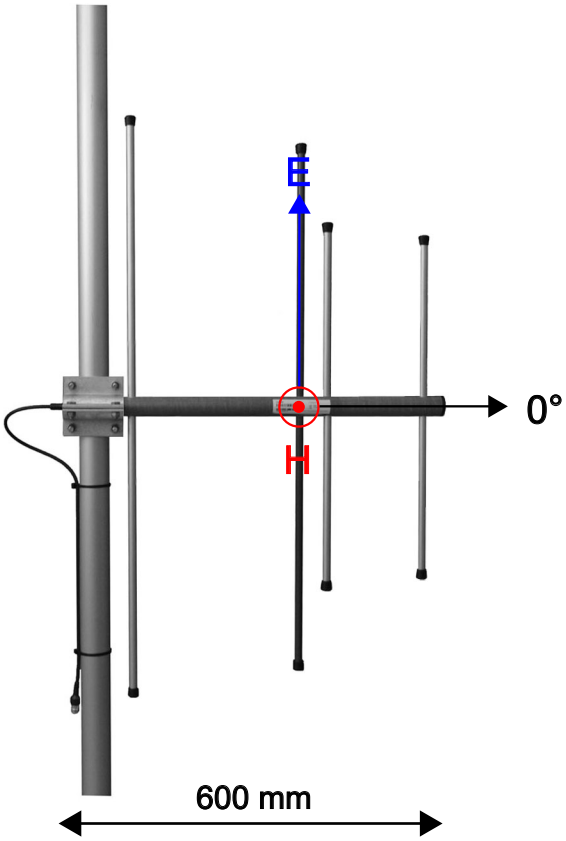

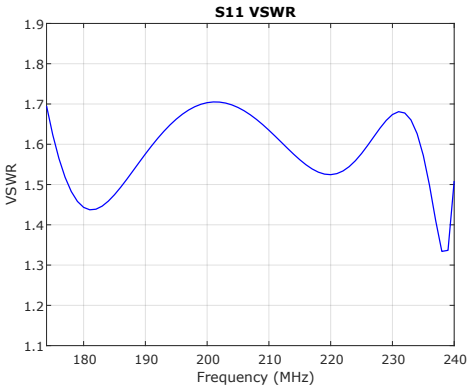

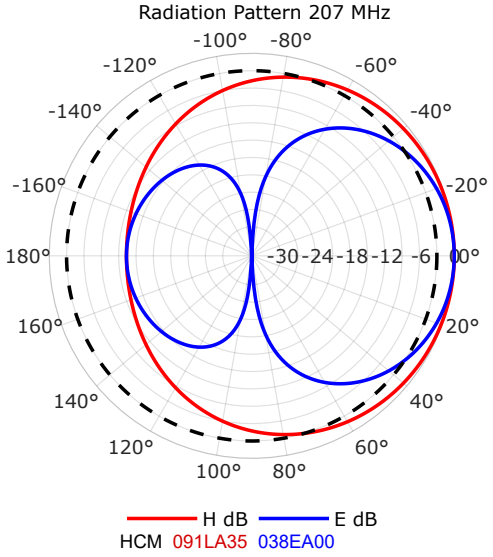

FREQUENCY INDEPENDENT DATA

Description:	directional yagi
Frequency:	174-240 MHz
Impedance:	50 ohm
Gain:	6 dBi
H -3 dB:	150º
E -3 dB:	70º
F/B:	15 dB
Polarization:	vertical/horizontal
Connector:	N-female / 7/16-female
VSWR:	< 2.0
Radome:	UV resistant FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CADABY DIRECTIONAL YAGI

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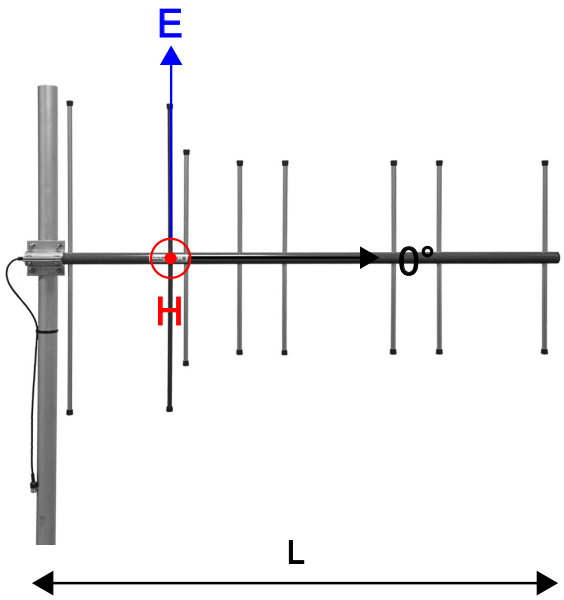
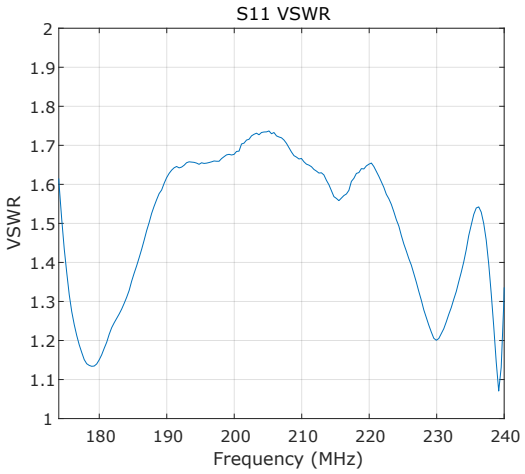
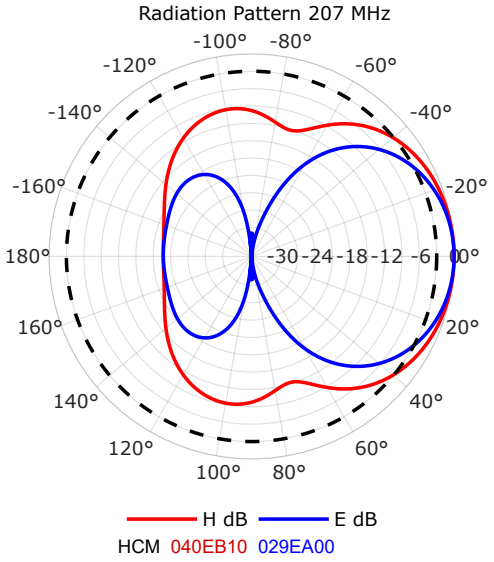


FREQUENCY INDEPENDENT DATA

Description:	directional yagi
Frequency:	174-240 MHz
Impedance:	50 ohm
Gain:	8-11 dBi
H -3 dB:	80º
E -3 dB:	58º
F/B:	15-20 dB
Polarization:	vertical/horizontal
Connector:	N-female / 7/16-female
VSWR:	< 1.8
Radome:	UV resistant FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*



HCM 040EB10 029EA00

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CADABY++ DIRECTIONAL YAGI

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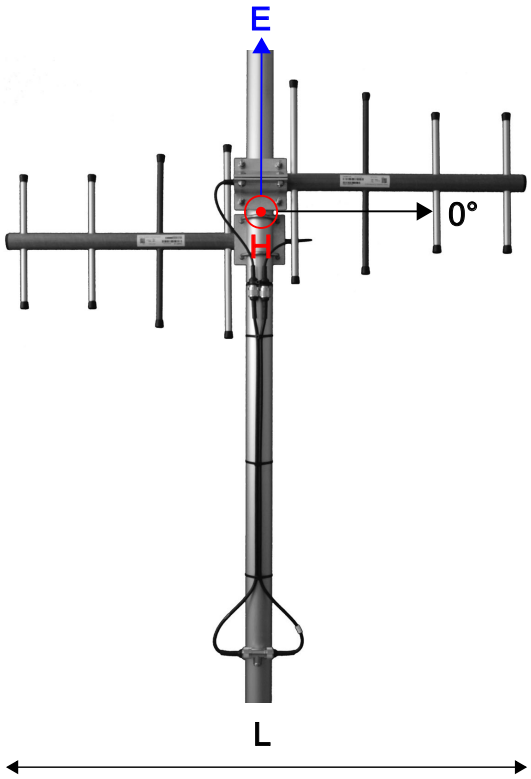
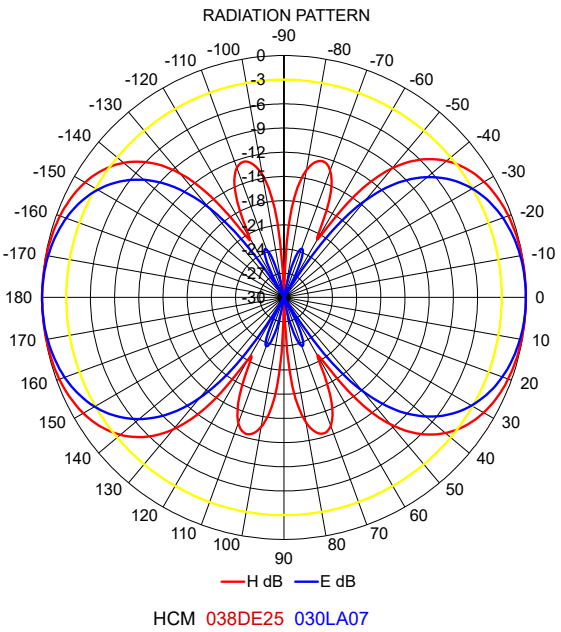


FREQUENCY INDEPENDENT DATA

Description:	directional end fire yagi array, field adjustable pattern
Frequency:	135-145 MHz, 144-156 MHz, 154-166 MHz, 163-177 MHz, 221-239 MHz, 326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz
Impedance:	50 ohm
Gain:	7 dBi
H -3 dB:	75º
E -3 dB:	59º
F/B:	0 dB
Polarization:	vertical/horizontal
Connector:	N-female/TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAF2+ DIRECTIONAL END FIRE YAGI ARRAY

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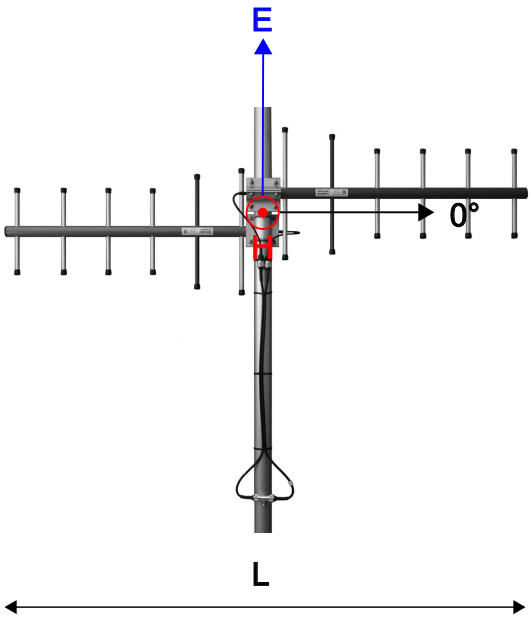
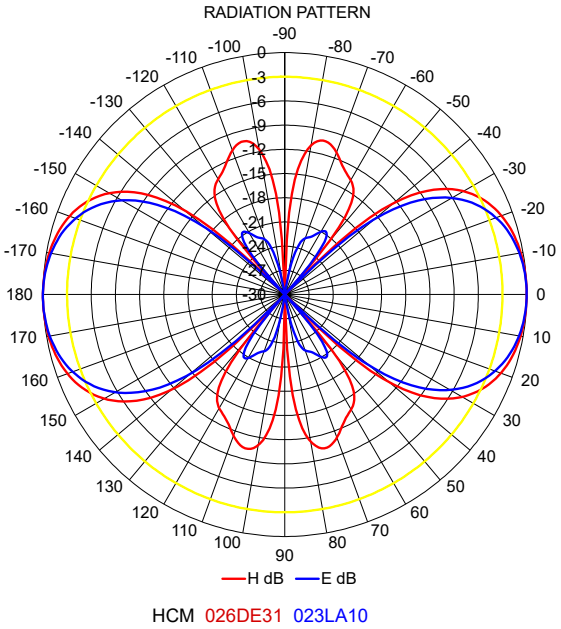


FREQUENCY INDEPENDENT DATA

Description:	directional end fire yagi array, field adjustable pattern
Frequency:	326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz
Impedance:	50 ohm
Gain:	9 dBi
H -3 dB:	52º
E -3 dB:	46º
F/B:	0 dB
Polarization:	vertical/horizontal
Connector:	N-female/TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



HCM 026DE31 023LA10

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAF2++ DIRECTIONAL END FIRE YAGI ARRAY

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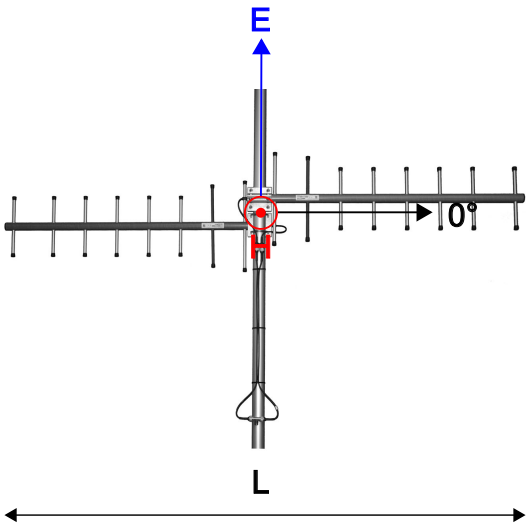
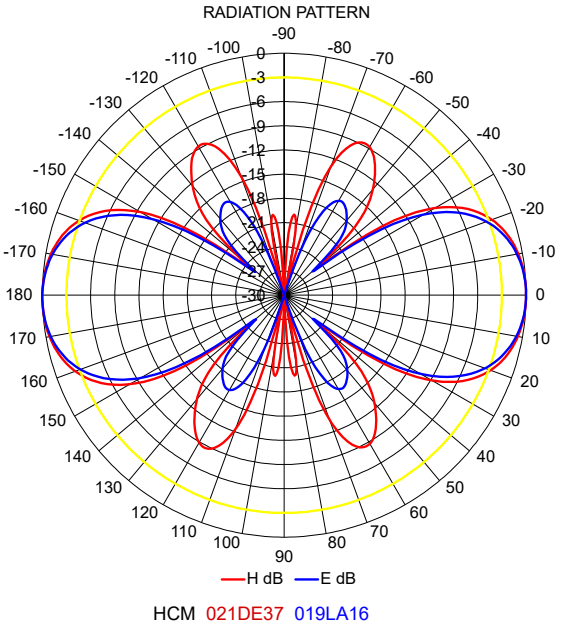


FREQUENCY INDEPENDENT DATA

Description:	directional end fire yagi array, field adjustable pattern
Frequency:	326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz
Impedance:	50 ohm
Gain:	10 dBi
H -3 dB:	42º
E -3 dB:	38º
F/B:	0 dB
Polarization:	vertical/horizontal
Connector:	N-female/TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



HCM 021DE37 019LA16

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAF2+++ DIRECTIONAL END FIRE YAGI ARRAY

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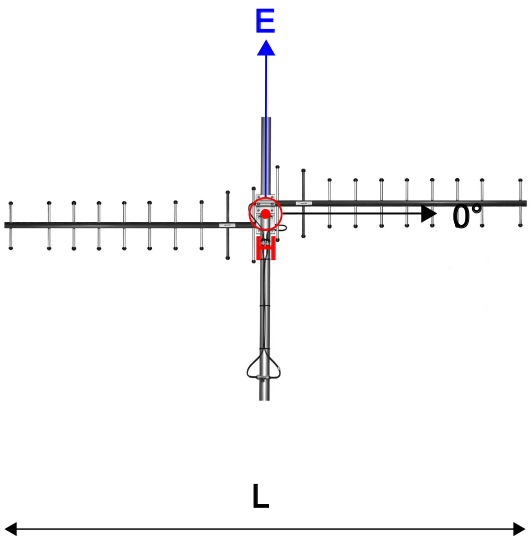
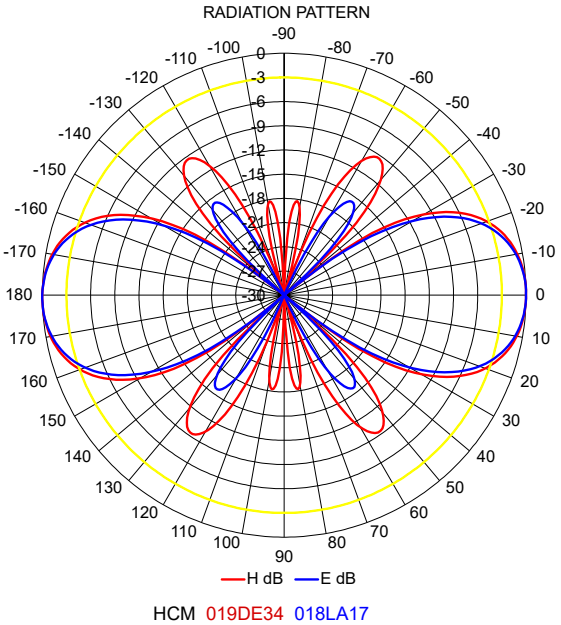


FREQUENCY INDEPENDENT DATA

Description:	directional end fire yagi array, field adjustable pattern
Frequency:	326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz
Impedance:	50 ohm
Gain:	11 dBi
H -3 dB:	38º
E -3 dB:	35º
F/B:	0 dB
Polarization:	vertical/horizontal
Connector:	N-female/TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*



HCM 019DE34 018LA17

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CAF2+++ DIRECTIONAL END FIRE YAGI ARRAY

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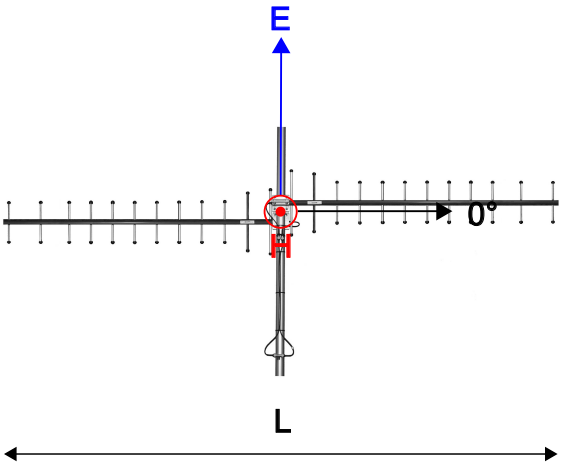
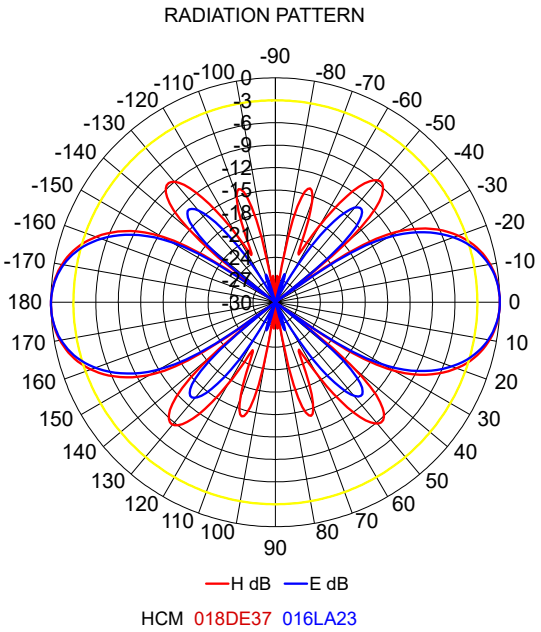


FREQUENCY INDEPENDENT DATA

Description:	directional end fire yagi array, field adjustable pattern
Frequency:	380-410 MHz, 405-440 MHz, 440-475 MHz
Impedance:	50 ohm
Gain:	12 dBi
H -3 dB:	35º
E -3 dB:	33º
F/B:	0 dB
Polarization:	vertical/horizontal
Connector:	N-female/TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*



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CAF2++++ DIRECTIONAL END FIRE YAGI ARRAY

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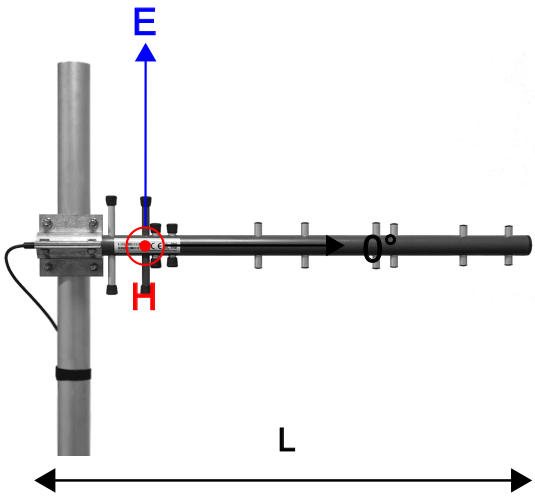
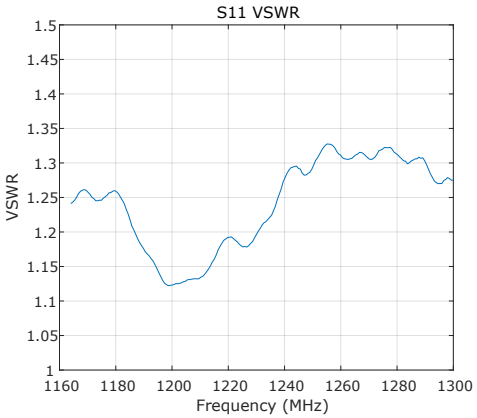


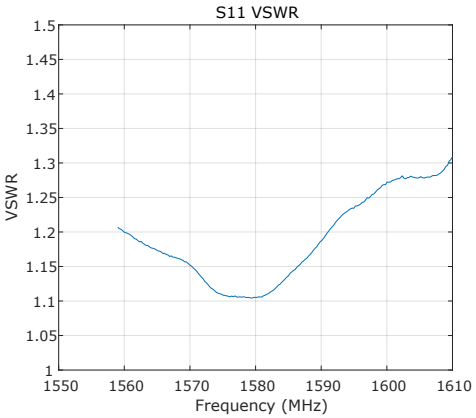
FREQUENCY INDEPENDENT DATA

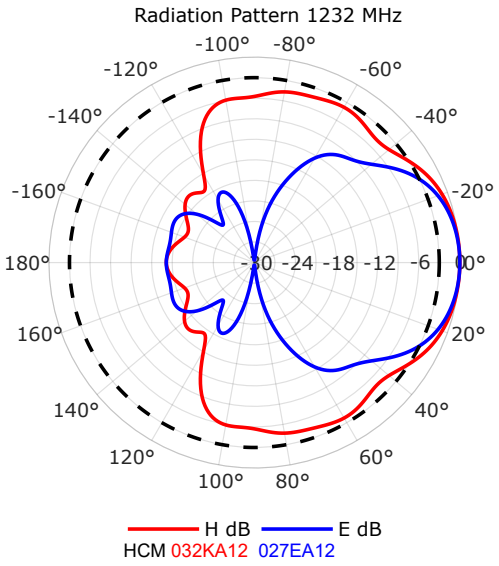
Description:	directional yagi
Frequency:	1164-1300/1559-1610 MHz
Impedance:	50 ohm
Gain:	8/10 dBi
H -3 dB:	64/32º
E -3 dB:	54/31º
F/B:	18/20 dB
Polarization:	vertical/horizontal/slanted
Connector:	N-/ TNC-/ 7/16-female
VSWR:	< 1.4
Radome:	UV resistant ABS, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67

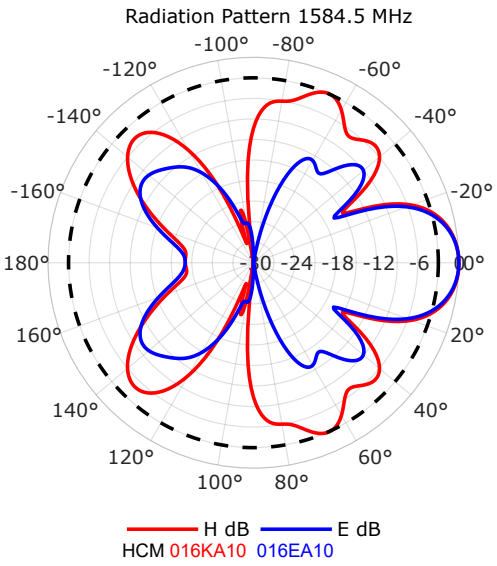
- *broadband design for GNSS signal reception/transmission*
- *covers all GPS, GLONASS, Galileo, BeiDou, NavIC, SBAS and QZSS frequencies*
- *testing and detection of jamming and spoofing*
- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAGNSSY++ DIRECTIONAL YAGI









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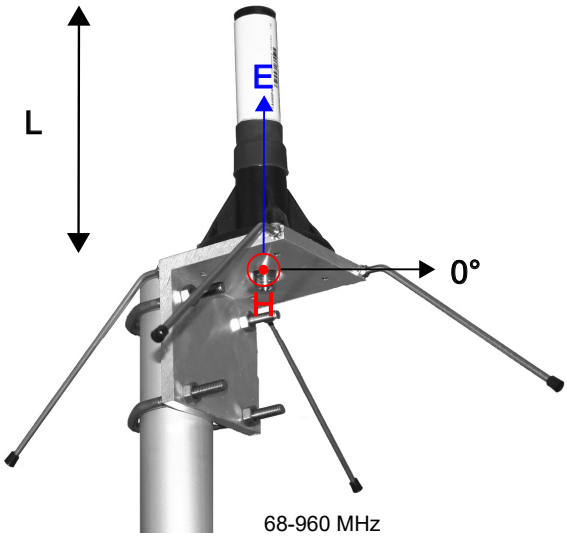
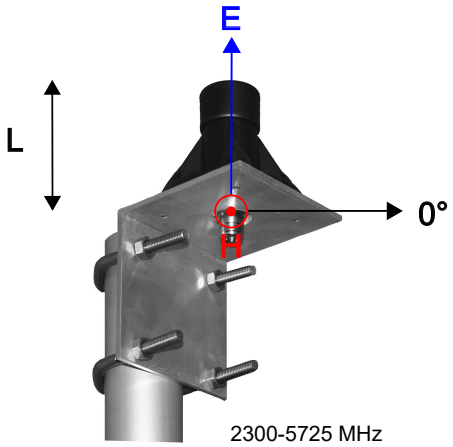
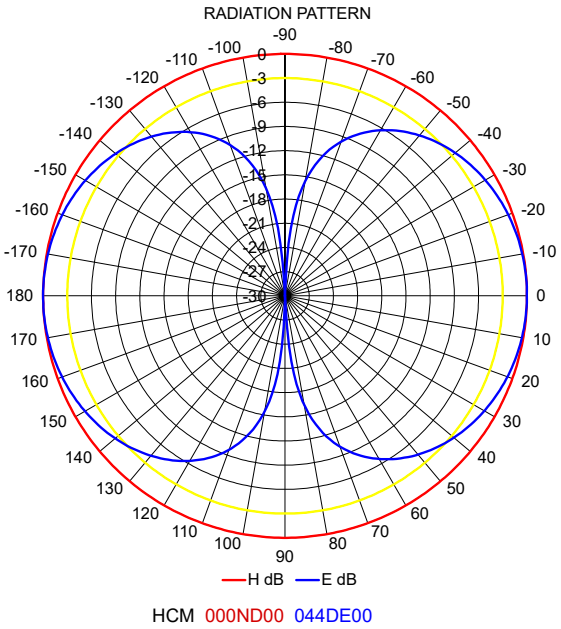


68-960 MHz



2300-5725 MHz



FREQUENCY INDEPENDENT DATA

Description:	omnidirectional ground plane
Frequency:	68-72 MHz, 73-77 MHz, 77-81 MHz, 83-87 MHz, 135-145 MHz, 144-156 MHz, 154-166 MHz, 163-177 MHz, 336-364 MHz, 380-430 MHz, 430-475 MHz, 830-890 MHz, 880-960 MHz, 2300-2500 MHz, 5150-5725 MHz
Impedance:	50 ohm
Gain:	2 dBi
H -3 dB:	
E -3 dB:	87º
F/B:	0 dB
Polarization:	vertical
Connector:	N-female/TNC-female
VSWR:	< 1.5
Radome:	UV resistant FG, white / PP, black PU foam filling
Radiator:	copper
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited, DC-grounded
Temperature:	-40ºC - +80ºC
IP:	67

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *UV protected glass fibre radome*
- *DC shorted and grounded feed point*
- *integrated impedance compensation*

CAGP OMNIDIRECTIONAL GROUND PLANE

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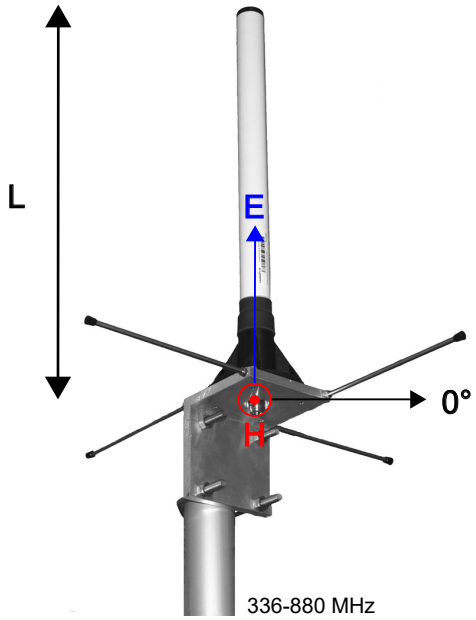
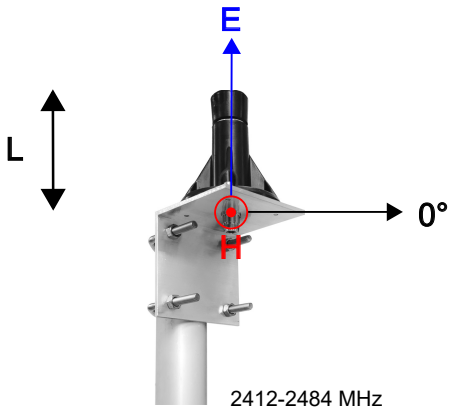


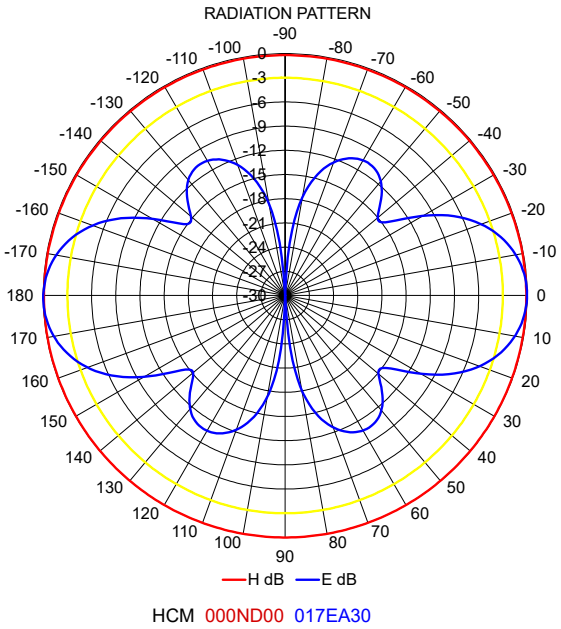
336-880 MHz



2412-2484 MHz

FREQUENCY INDEPENDENT DATA

Description:	omnidirectional ground plane
Frequency:	336-364 MHz f_0 ±1%, 401-409 MHz, 406-414 MHz, 416-424 MHz, 426-434 MHz, 431-439 MHz, 436-444 MHz, 441-449 MHz, 446-454 MHz, 456-464 MHz, 465-475 MHz, 860-880 MHz, 2412-2484 MHz
Impedance:	50 ohm
Gain:	6 dBi
H -3 dB:	
E -3 dB:	34º
F/B:	0 dB
Polarization:	vertical
Connector:	N-female/TNC-female
VSWR:	< 1.5
Radome:	UV resistant FG, white / PP, black PU foam filling
Radiator:	copper
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited, DC-grounded
Temperature:	-40ºC - +80ºC
IP:	67



- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *UV protected glass fibre radome*
- *DC shorted and grounded feed point*
- *integrated impedance compensation*

CAGP+ OMNIDIRECTIONAL GROUND PLANE

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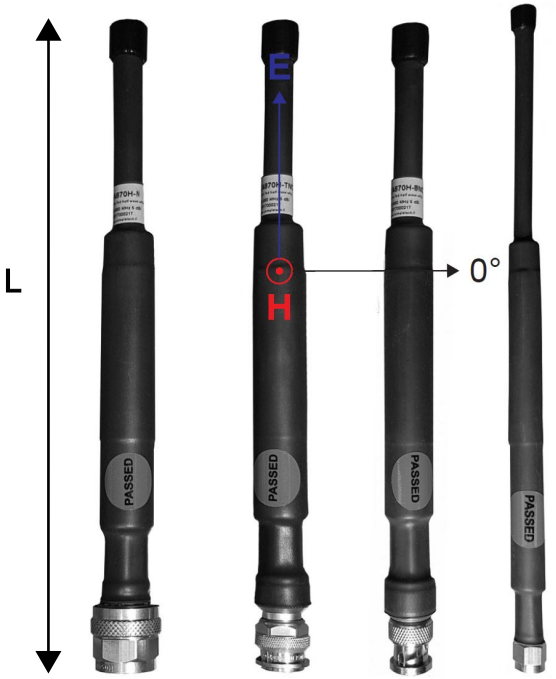
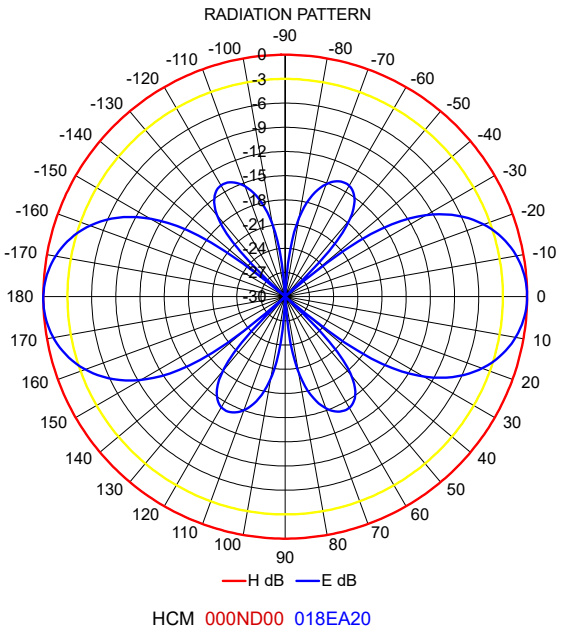


FREQUENCY INDEPENDENT DATA

Description:	center fed half wave whip with elevated feed
Frequency:	405-440 MHz, 440-475 MHz, 860-880 MHz, 900-930 MHz, 2400-2500 MHz
Impedance:	50 ohm
Gain:	5 dBi
H -3 dB:	
E -3 dB:	35º
F/B:	0 dB
Polarization:	vertical
Connector:	BNC-/ N-/ TNC-/ SMA-male
VSWR:	< 1.5
Radome:	PE, heat shrink adhesive tubing
Radiator:	copper
Attachment:	directly to terminal
Temperature:	-40ºC - +80ºC
IP:	62



- *directly connected to radio*
- *no ground plane required*
- *improved decoupling*

CAH CENTER FED HALF WAVE WHIP

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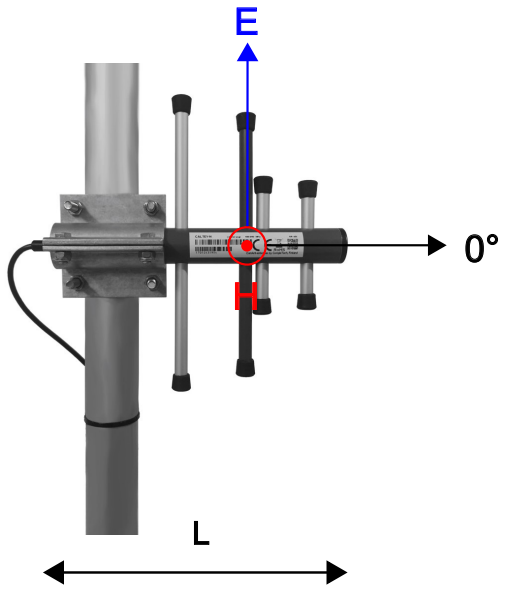
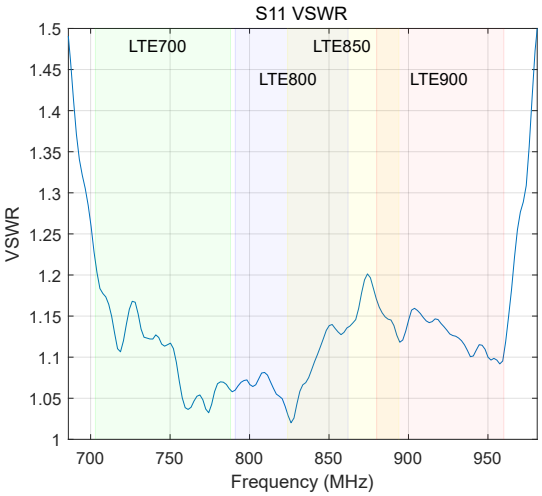


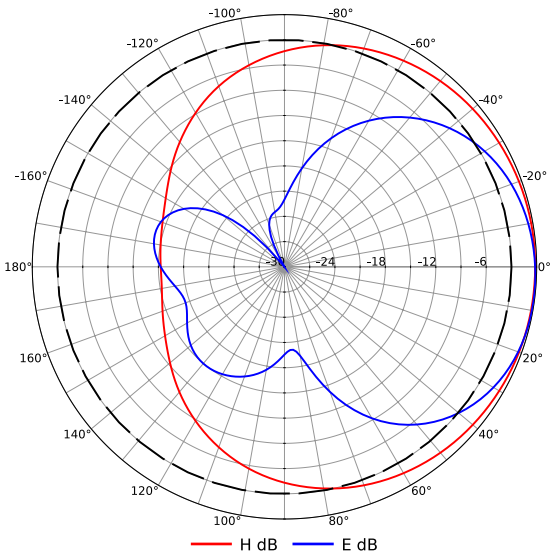
FREQUENCY INDEPENDENT DATA

Description:	directional yagi
Frequency:	690-960 MHz
Impedance:	50 ohm
Gain:	6/7 dBi
H -3 dB:	159/123º
E -3 dB:	75/69º
F/B:	15/26 dB
Polarization:	vertical/horizontal/slanted
Connector:	N-/ TNC-/ 7/16-female
VSWR:	< 1.5
Radome:	UV resistant ABS, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



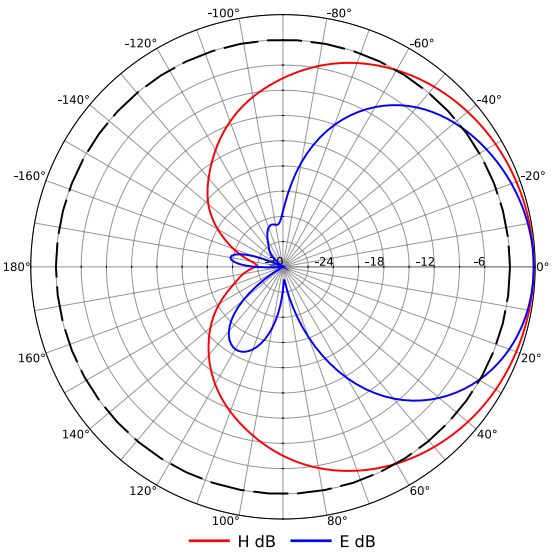
- *broadband design for LTE700, LTE800, LTE850 and LTE900*
- *covers LTE bands 5, 8, 12, 13, 14, 17, 18, 19, 20, 26, 28, 29, 67, 85, 103, 106*
- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

Radiation Pattern 757.5 MHz



HCM 080LA18 038EA11

Radiation Pattern 892.5 MHz



HCM 062LA05 035EA07

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CALTEY DIRECTIONAL YAGI

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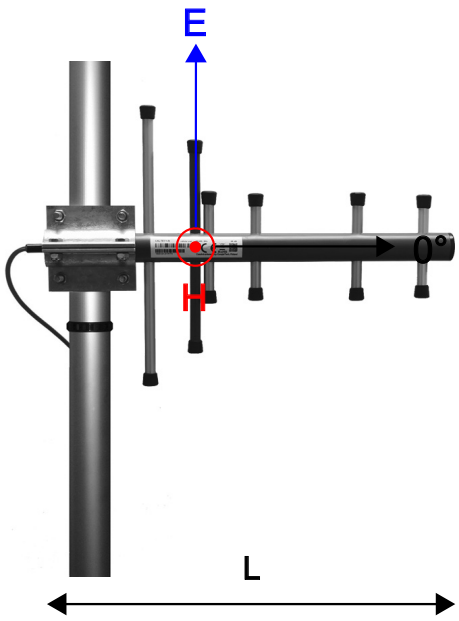
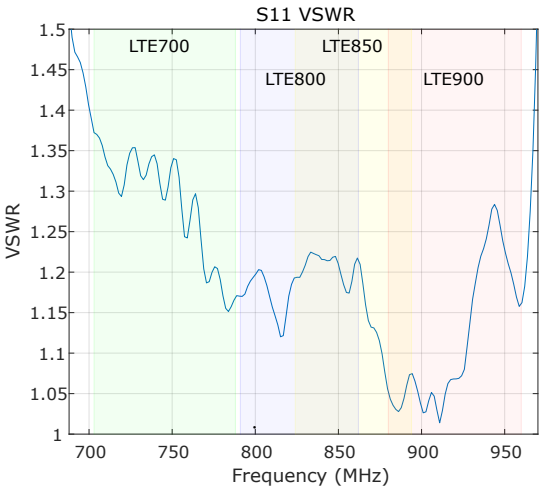


FREQUENCY INDEPENDENT DATA

Description:	directional yagi
Frequency:	690-960 MHz
Impedance:	50 ohm
Gain:	7.5/10 dBi
H -3 dB:	99/67º
E -3 dB:	67/54º
F/B:	19/25 dB
Polarization:	vertical/horizontal/slanted
Connector:	N-/ TNC-/ 7/16-female
VSWR:	< 1.5
Radome:	UV resistant ABS, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



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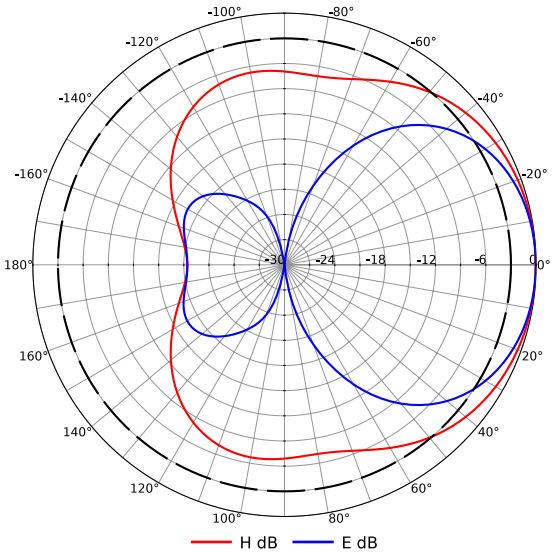
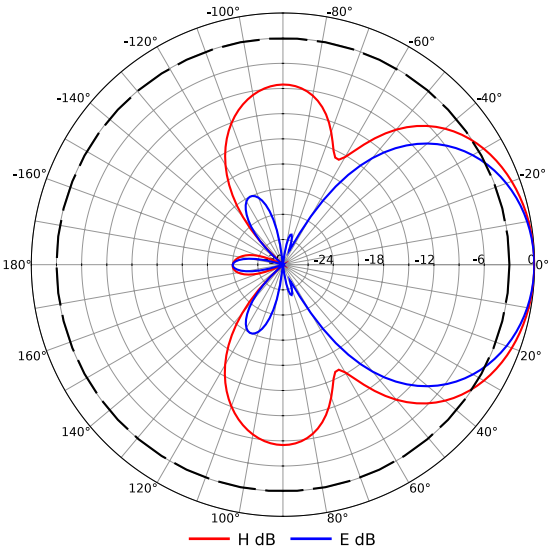
- *covers LTE bands 5, 8, 12, 13, 14, 17, 18, 19, 20, 26, 28, 29, 67, 85, 103, 106*
- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

Radiation Pattern 757.5 MHz



HCM 050LA11 034EA00

Radiation Pattern 892.5 MHz



HCM 034LA06 027EA00

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CALTEY+ DIRECTIONAL YAGI

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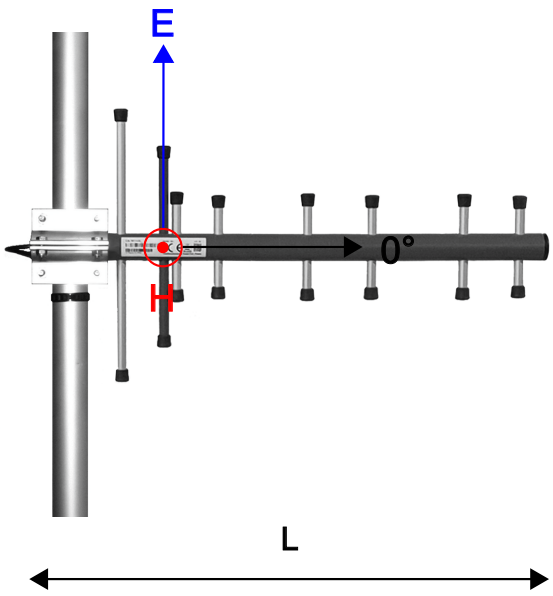
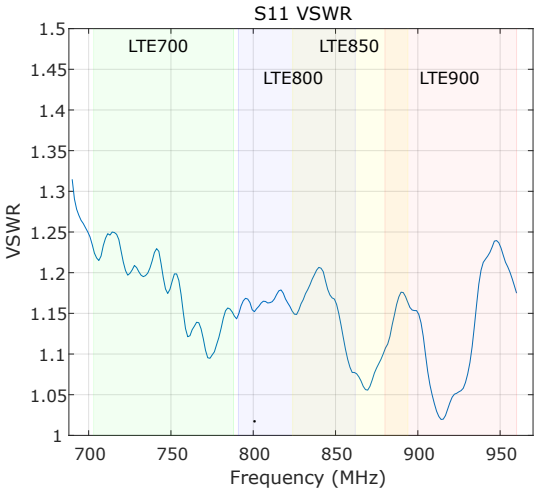


FREQUENCY INDEPENDENT DATA

Description:	directional yagi
Frequency:	690-960 MHz
Impedance:	50 ohm
Gain:	8.5/11.5 dBi
H -3 dB:	76/50º
E -3 dB:	57/45º
F/B:	16/21 dB
Polarization:	vertical/horizontal/slanted
Connector:	N-/ TNC-/ 7/16-female
VSWR:	< 1.5
Radome:	UV resistant ABS, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



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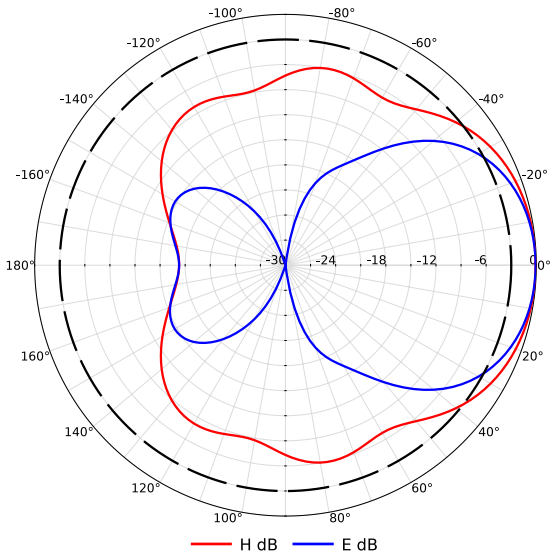
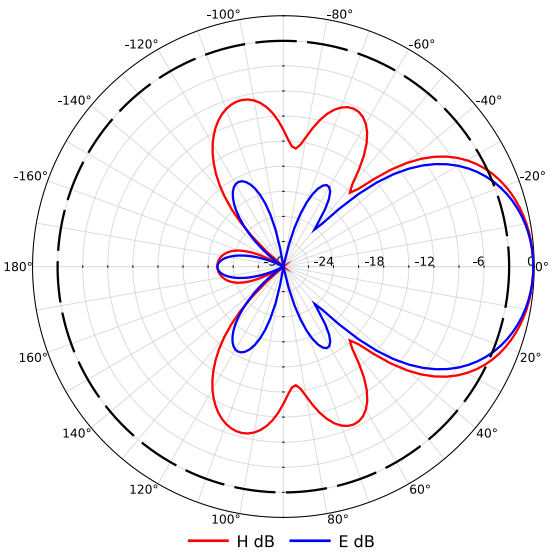
- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

Radiation Pattern 757.5 MHz



HCM 037LA16 028EA00

Radiation Pattern 892.5 MHz



HCM 024LA09 022EA00

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CALTEY++ DIRECTIONAL YAGI

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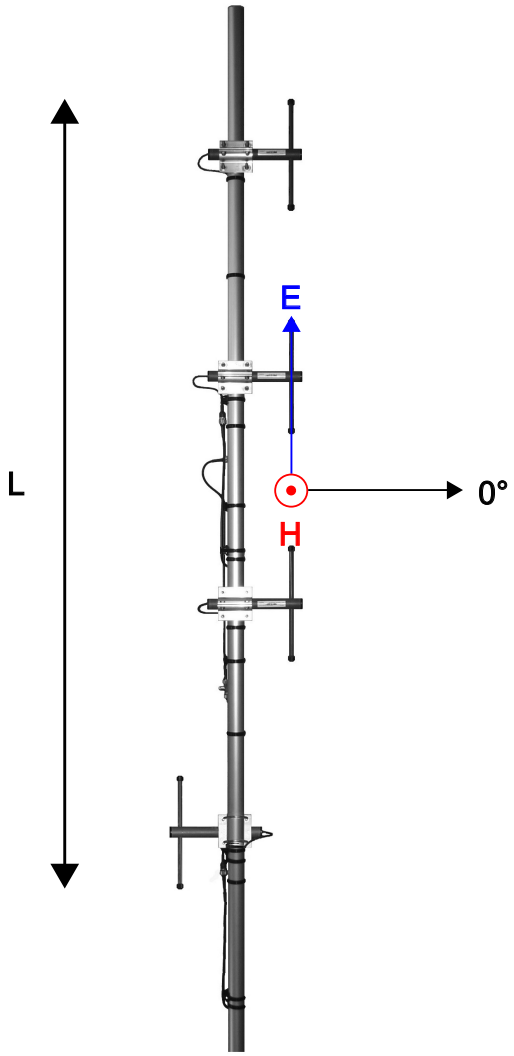
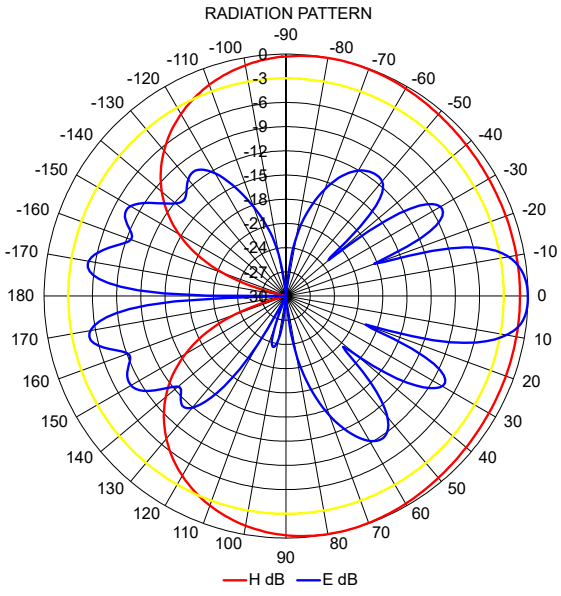


FREQUENCY INDEPENDENT DATA

Description:	cardioid pattern notch, field adjustable pattern, optinal beam tilting
Frequency:	326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz
Impedance:	50 ohm
Gain:	8 dBi
H -3 dB:	229º
E -3 dB:	23º
F/B:	30 dB
Polarization:	vertical
Connector:	N-female/TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*



HCM 114LA00 011LA42

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CAN4 CARDIOID PATTERN NOTCH

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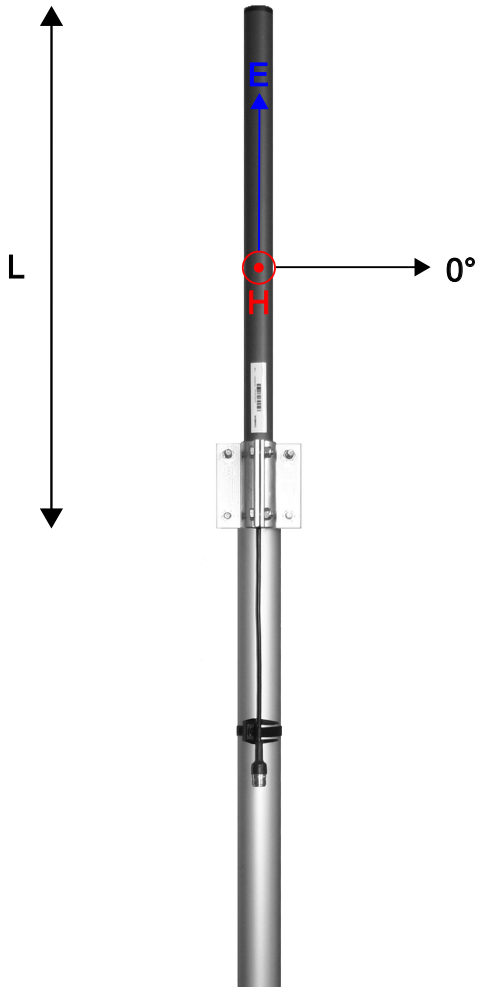
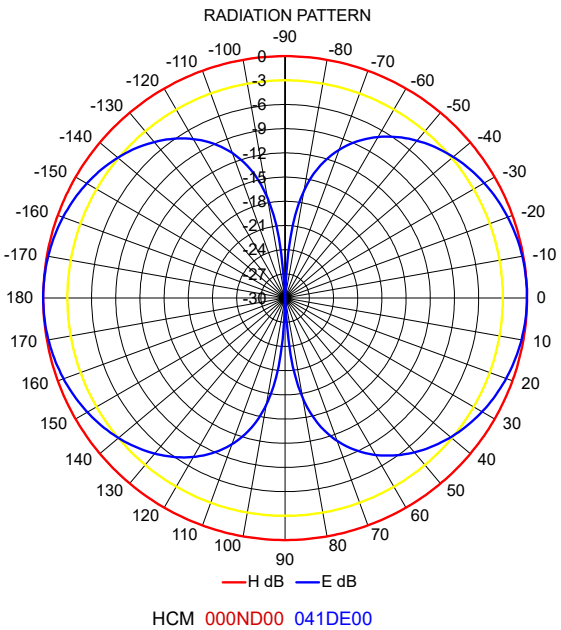


FREQUENCY INDEPENDENT DATA

Description:	omnidirectional coaxial dipole
Frequency:	326-353 MHz, 336-364MHz, 380-400 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	2 dBi
H -3 dB:	
E -3 dB:	81°
F/B:	0 dB
Polarization:	vertical
Connector:	N-/ TNC-/ 7/16-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*



HCM 000ND00 041DE00

CAO OMNIDIRECTIONAL COAXIAL DIPOLE

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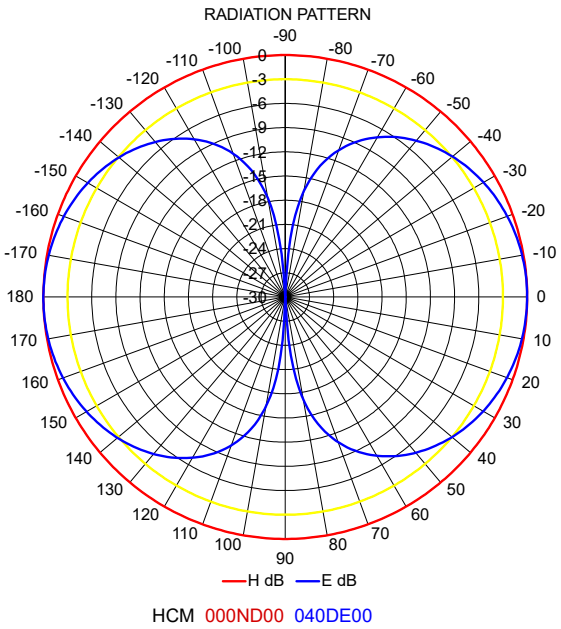

FREQUENCY INDEPENDENT DATA

Description:	quarter wave whip, sleeve feed for proper matching with small sized radios
Frequency:	225-335 MHz, 336-364 MHz, 370-390 MHz, 380-400 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz,
Impedance:	50 ohm
Gain:	2 dBi
H -3 dB:	
E -3 dB:	81°
F/B:	0 dB
Polarization:	vertical
Connector:	BNC-/ N-/ SMA-/ TNC-male
VSWR:	< 1.5
Radome:	PE, heat shrink adhesive tubing
Radiator:	copper
Attachment:	directly to terminal
Temperature:	-40ºC - +80ºC
IP:	62

- *directly connected to radio*
- *optimized impedance match with reduced size ground plane*
- *improved bandwidth*

CAQ QUARTER WAVE WHIP

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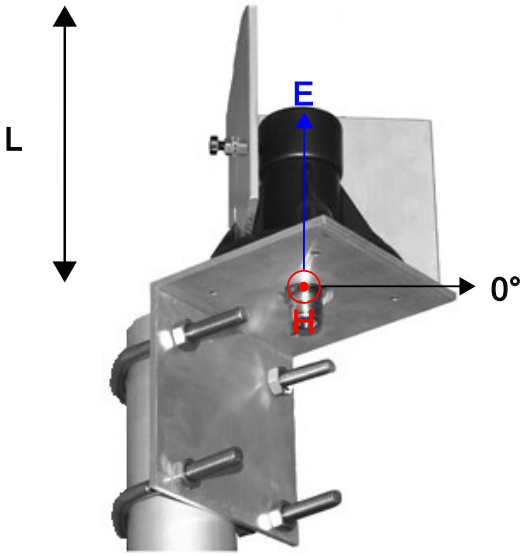
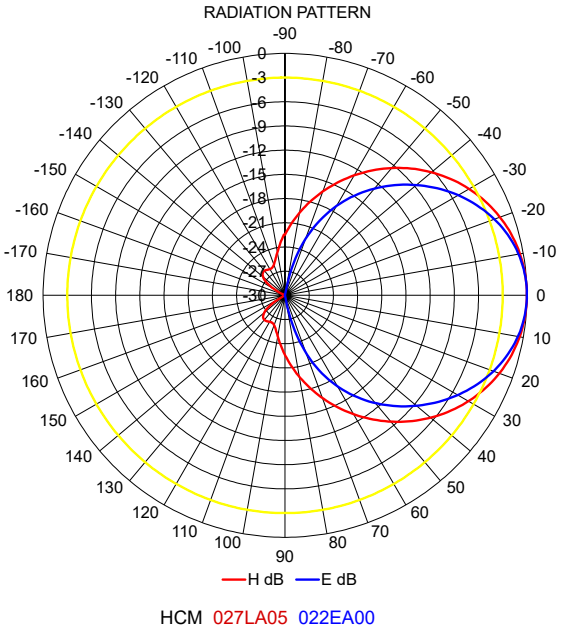


FREQUENCY INDEPENDENT DATA

Description:	reflector monopole
Frequency:	2300-2500 MHz
Impedance:	50 ohm
Gain:	12 dBi
H -3 dB:	54º
E -3 dB:	45º
F/B:	30 dB
Polarization:	vertical
Connector:	N-female
VSWR:	< 1.5
Radome:	UV-resistant PP, black, PU foam filling
Radiator:	copper
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-grounded
Temperature:	-40ºC - +80ºC
IP:	67



HCM 027LA05 022EA00

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC grounded feed point*
- *integrated impedance compensation*

CAR REFLECTOR MONOPOLE

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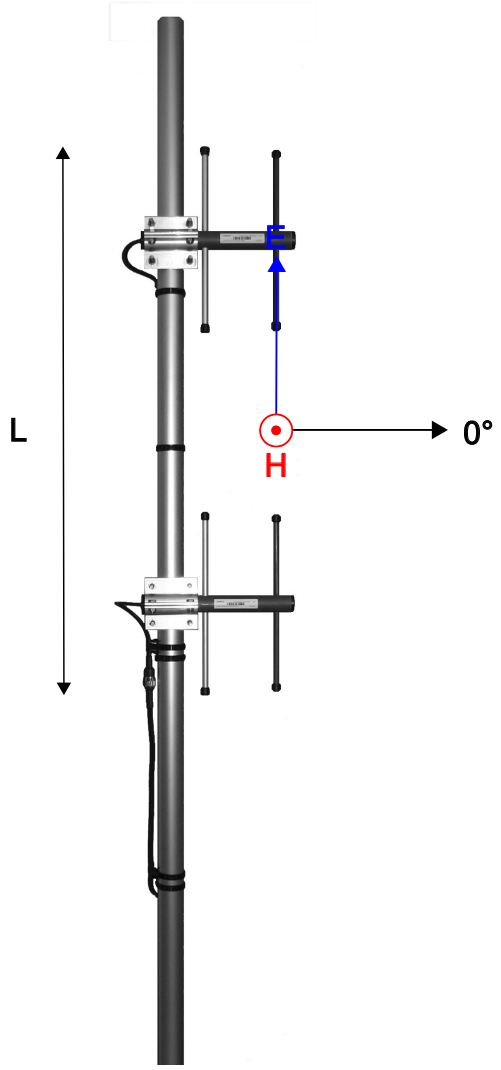
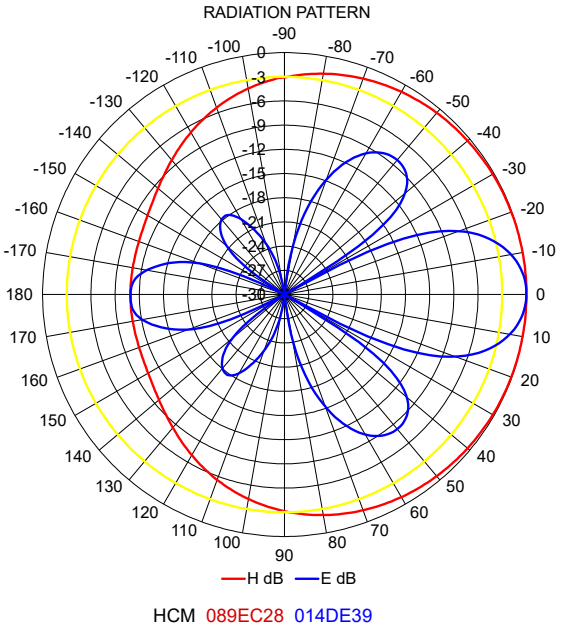


FREQUENCY INDEPENDENT DATA

Description:	directional stacked yagi array, field adjustable pattern, optional beam tilting
Frequency:	135-145 MHz, 144-156 MHz, 154-166 MHz, 163-177 MHz, 221-239 MHz, 326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	9 dBi
H -3 dB:	178º
E -3 dB:	27º
F/B:	11 dB
Polarization:	vertical/horizontal
Connector:	N-female/TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC



- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAS2 DIRECTIONAL STACKED YAGI ARRAY

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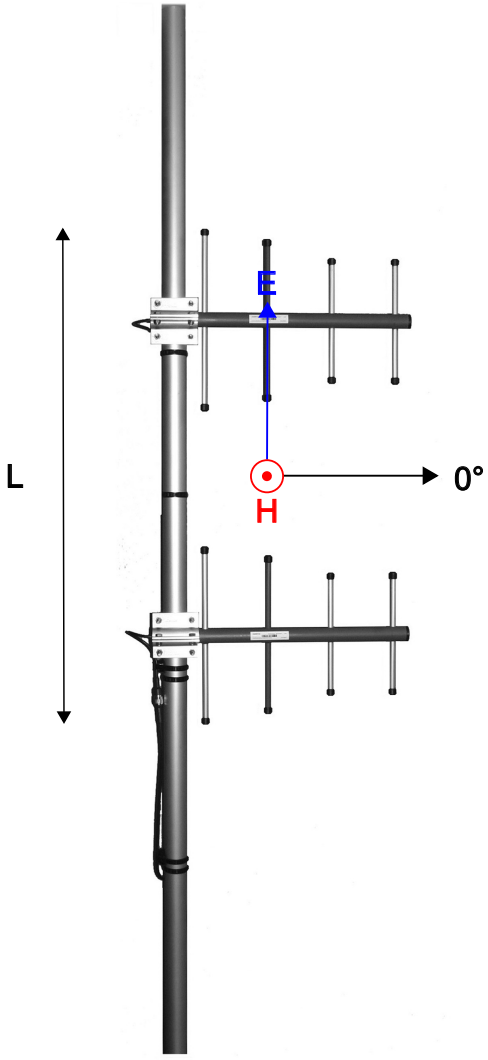
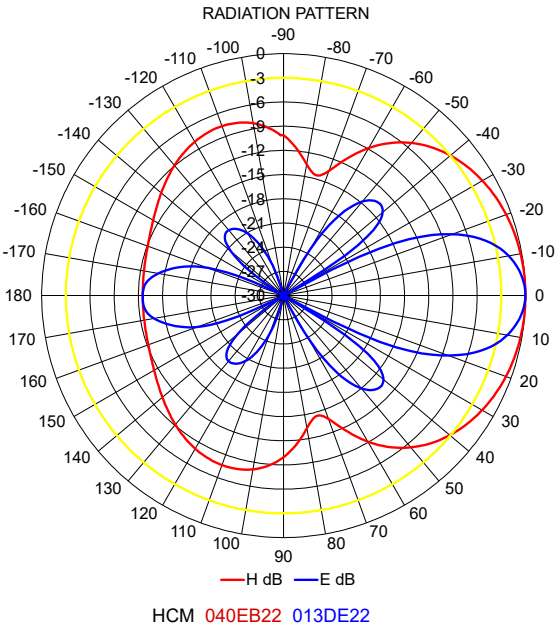


FREQUENCY INDEPENDENT DATA

Description:	directional stacked yagi array, field adjustable pattern, optional beam tilting
Frequency:	135-145 MHz, 144-156 MHz, 154-166 MHz, 163-177 MHz, 221-239 MHz, 326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	11 dBi
H -3 dB:	85º
E -3 dB:	26º
F/B:	12 dB
Polarization:	vertical/horizontal
Connector:	N-female/TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC



- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAS2+ DIRECTIONAL STACKED YAGI ARRAY

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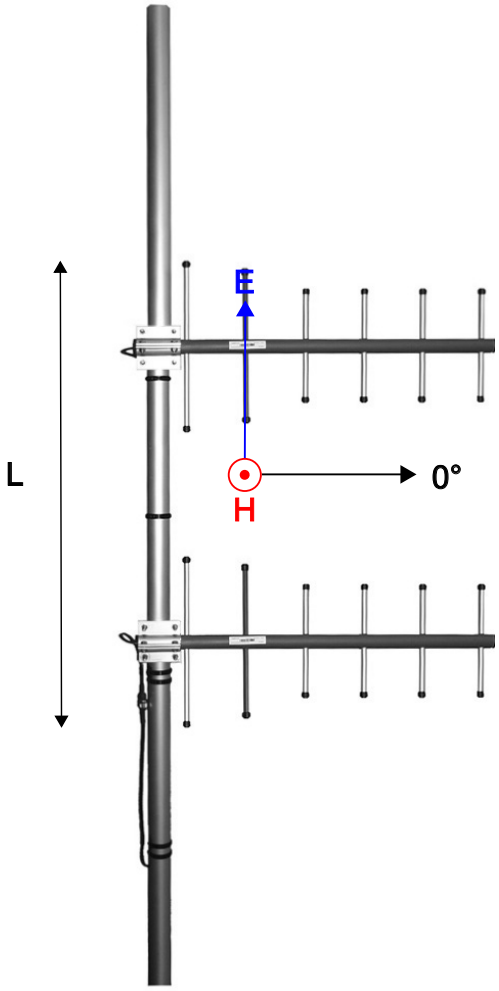
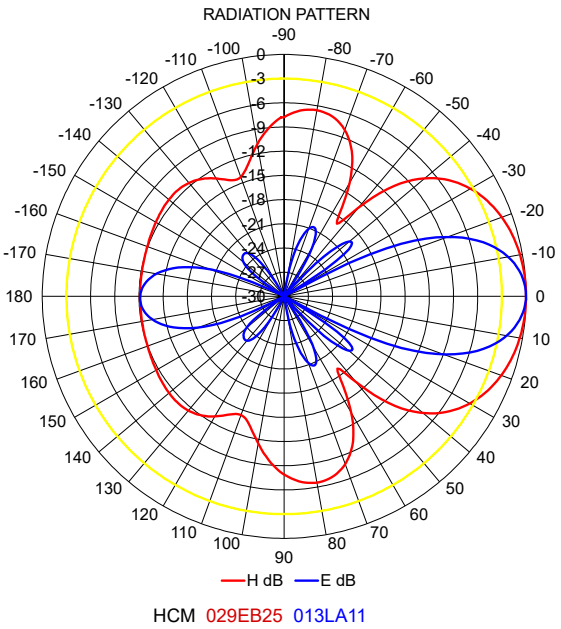


FREQUENCY INDEPENDENT DATA

Description:	directional stacked yagi array, field adjustable pattern, optional beam tilting
Frequency:	326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	13 dBi
H -3 dB:	62º
E -3 dB:	25º
F/B:	12 dB
Polarization:	vertical/horizontal
Connector:	N-female/TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAS2++ DIRECTIONAL STACKED YAGI ARRAY

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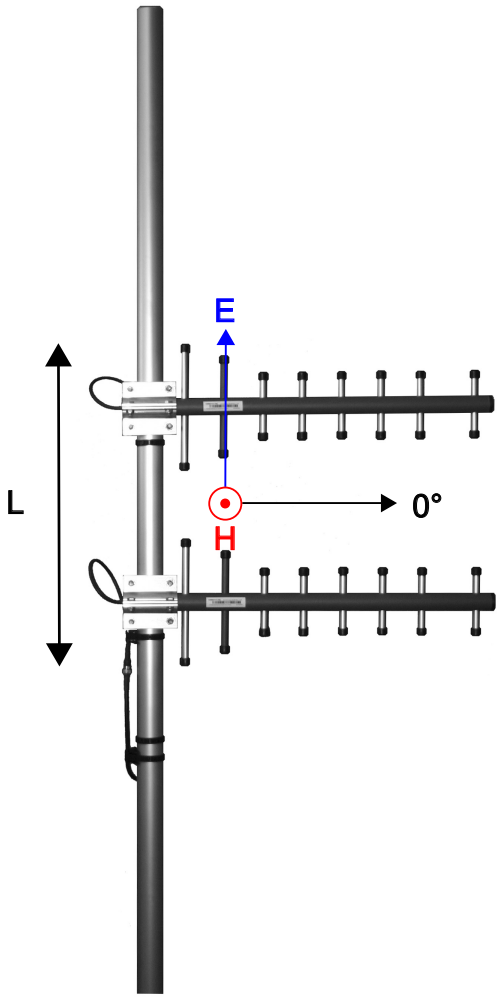
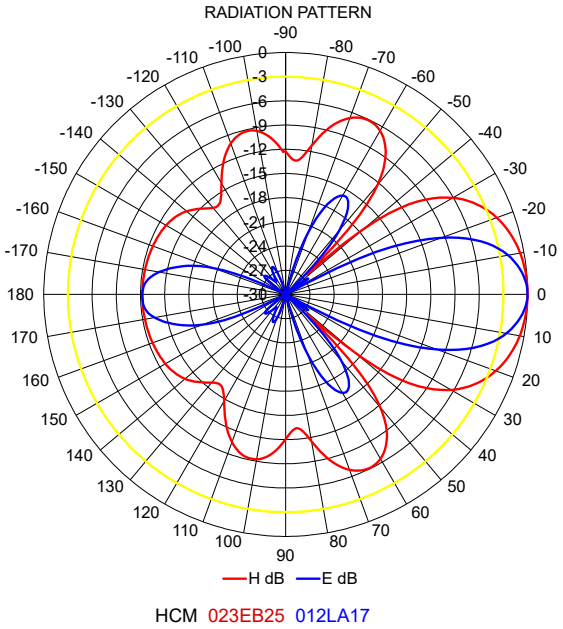


FREQUENCY INDEPENDENT DATA

Description:	directional stacked yagi array, field adjustable pattern, optional beam tilting
Frequency:	326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	13.5 dBi
H -3 dB:	49º
E -3 dB:	24º
F/B:	12 dB
Polarization:	vertical/horizontal
Connector:	N-female/TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAS2+++ DIRECTIONAL STACKED YAGI ARRAY

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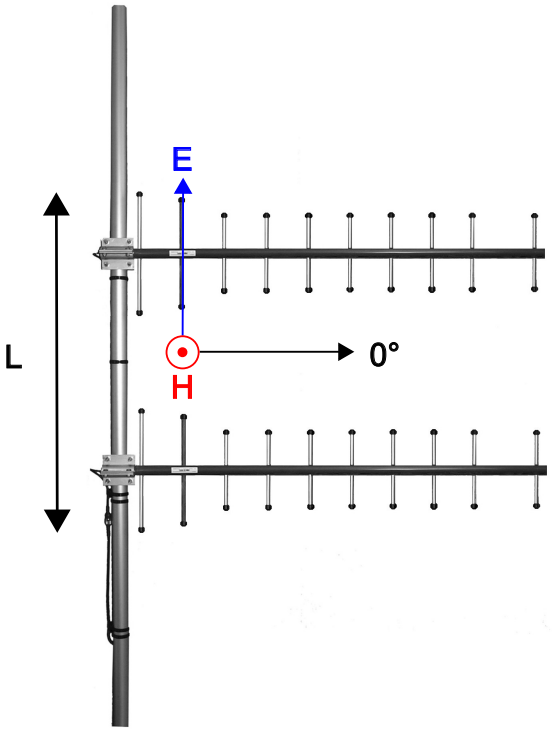
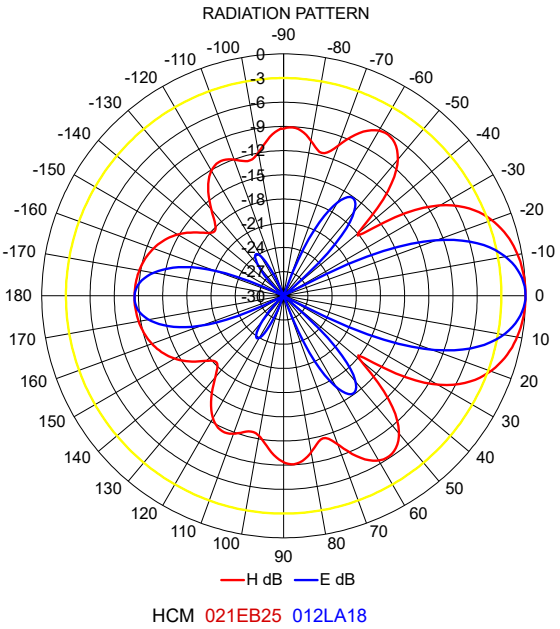


FREQUENCY INDEPENDENT DATA

Description:	directional stacked yagi array, field adjustable pattern, optional beam tilting
Frequency:	326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	14 dBi
H -3 dB:	43º
E -3 dB:	23º
F/B:	12 dB
Polarization:	vertical/horizontal
Connector:	N-female/TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAS2+++ DIRECTIONAL STACKED YAGI ARRAY

CE

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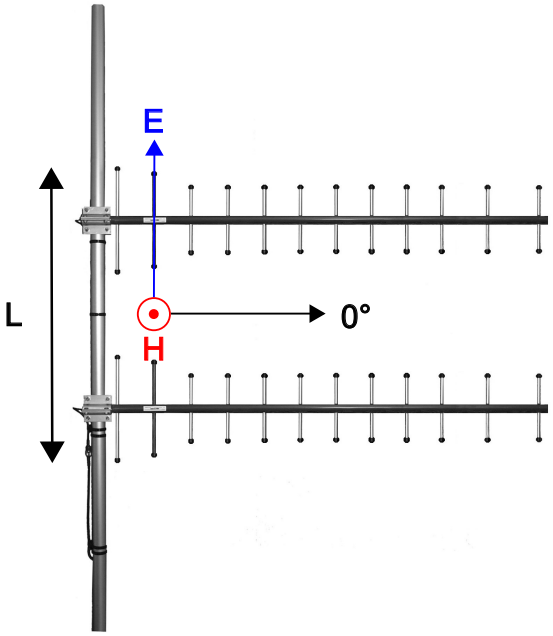
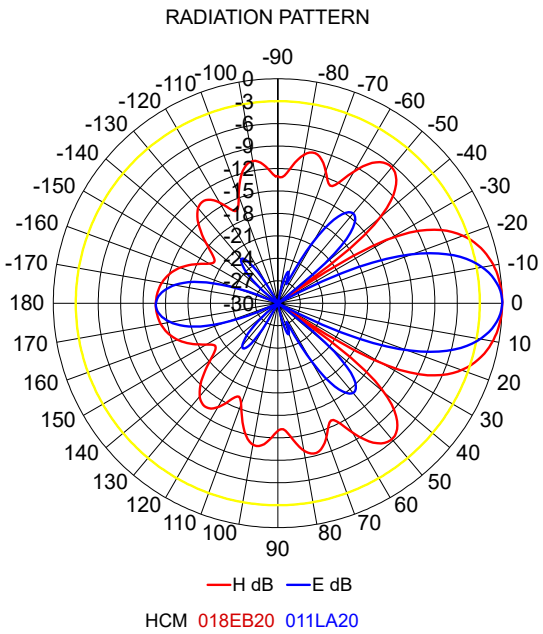


FREQUENCY INDEPENDENT DATA

Description:	directional stacked yagi array, field adjustable pattern, optional beam tilting
Frequency:	380-410 MHz, 405-440 MHz, 440-475 MHz
Impedance:	50 ohm
Gain:	15 dBi
H -3 dB:	37º
E -3 dB:	22º
F/B:	14 dB
Polarization:	vertical/horizontal
Connector:	N-female/TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAS2++++ DIRECTIONAL STACKED YAGI ARRAY

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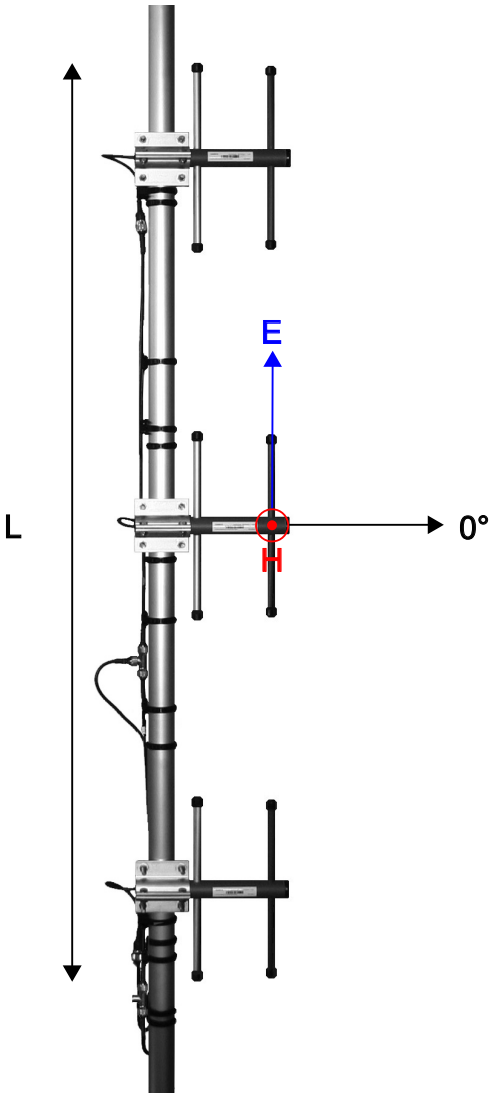
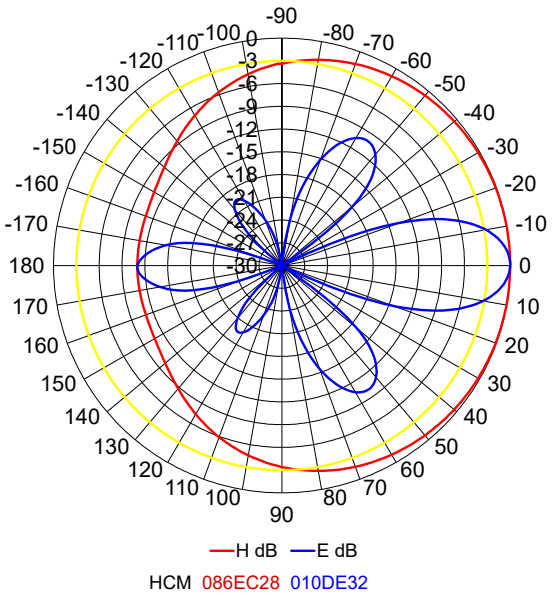


FREQUENCY INDEPENDENT DATA

Description:	directional stacked yagi array, triangular feed, field adjustable pattern, optional beam tilting
Frequency:	135-145 MHz, 144-156 MHz, 154-166 MHz, 163-177 MHz, 221-239 MHz, 326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	10 dBi
H -3 dB:	173º
E -3 dB:	20º
F/B:	11 dB
Polarization:	vertical
Connector:	N-female / TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67

RADIATION PATTERN



- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAS3 DIRECTIONAL STACKED YAGI ARRAY

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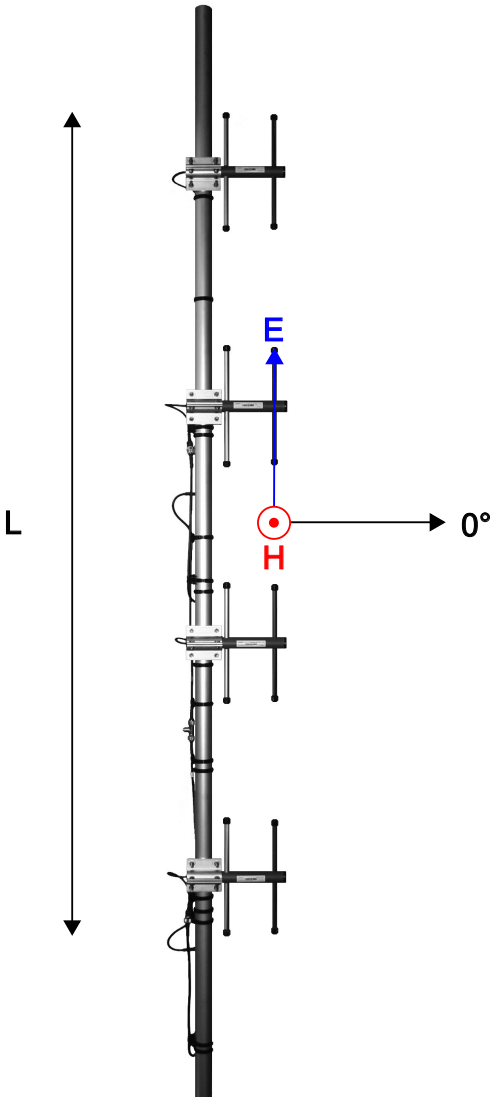
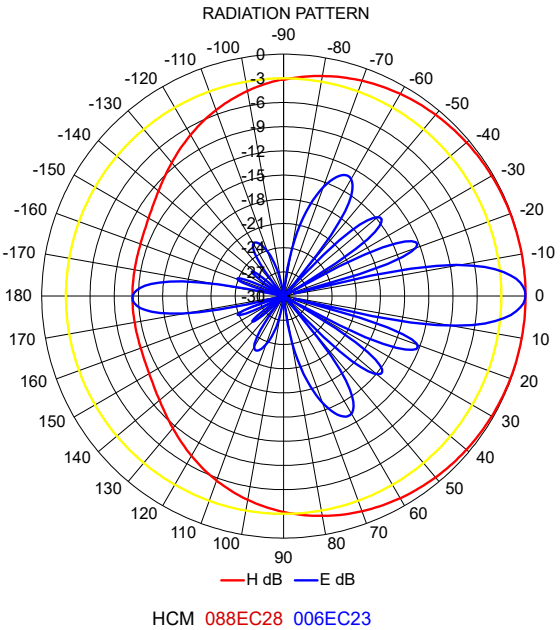


FREQUENCY INDEPENDENT DATA

Description:	directional stacked yagi array, field adjustable pattern, optional beam tilting
Frequency:	135-145 MHz, 144-156 MHz, 154-166 MHz, 163-177 MHz, 221-239 MHz, 326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	12 dBi
H -3 dB:	176º
E -3 dB:	13º
F/B:	11 dB
Polarization:	vertical
Connector:	N-female / TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



HCM 088EC28 006EC23

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAS4 DIRECTIONAL STACKED YAGI ARRAY

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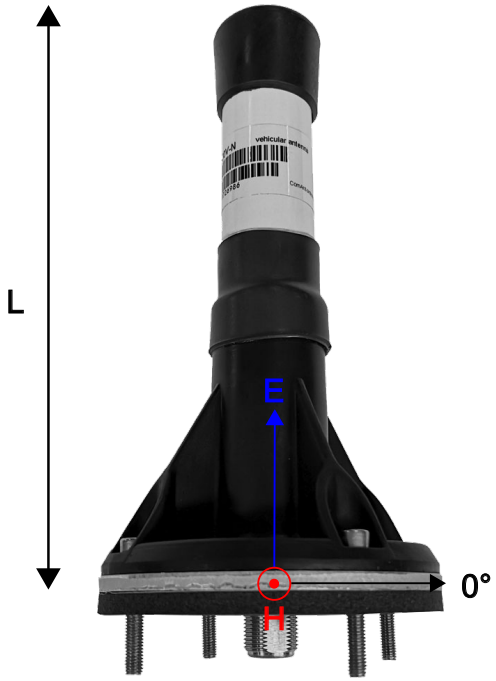

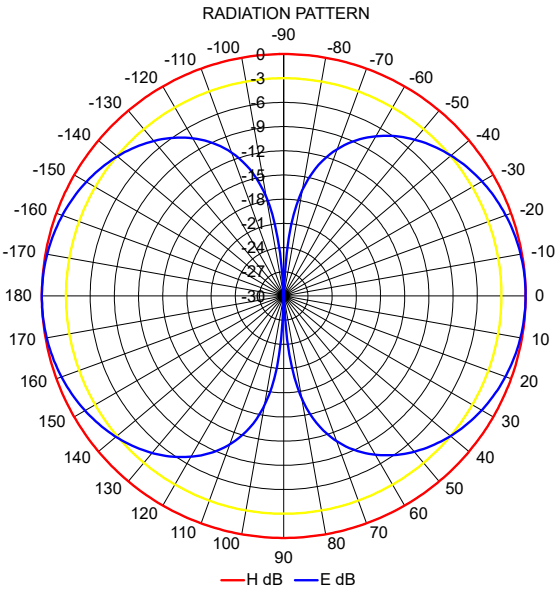

FREQUENCY INDEPENDENT DATA

Description:	vehicular antenna
Frequency:	221-239 MHz, 336-364MHz, 370-390 MHz, 380-400 MHz, 405-440 MHz, 440-475 MHz, 791-862 MHz, 830-890 MHz, 880-960 MHz, 2300-2500 MHz, 5150-5725 MHz
Impedance:	50 ohm
Gain:	2 dBi
H -3 dB:	
E -3 dB:	81°
F/B:	0 dB
Polarization:	vertical
Connector:	N-female
VSWR:	< 1.5
Radome:	UV resistant FG, white / PP, black PU foam filling
Radiator:	copper
Attachment:	4 pcs M5x20 stainless steel bolts and self-locking nuts, closed cell PE foam gasket
Temperature:	-40ºC - +80ºC
IP:	67

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *UV protected glass fibre radome*
- *optimized impedance match with reduced size ground plane*
- *improved bandwidth*

CAV VEHICULAR ANTENNA

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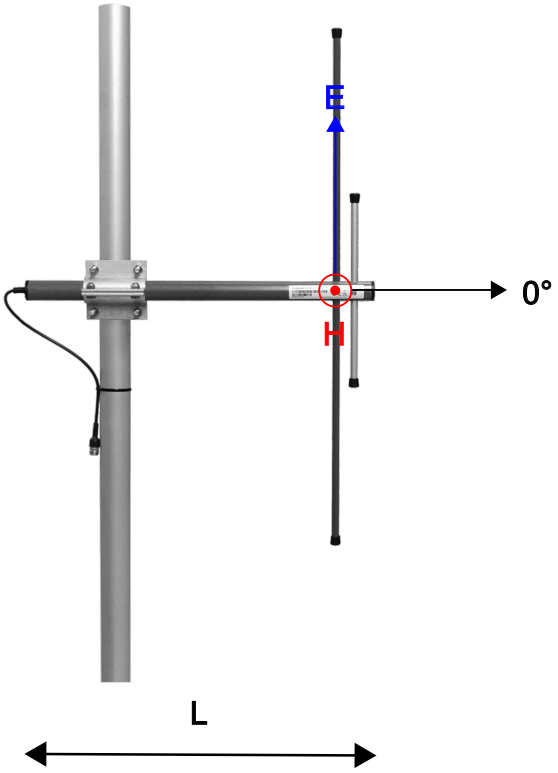
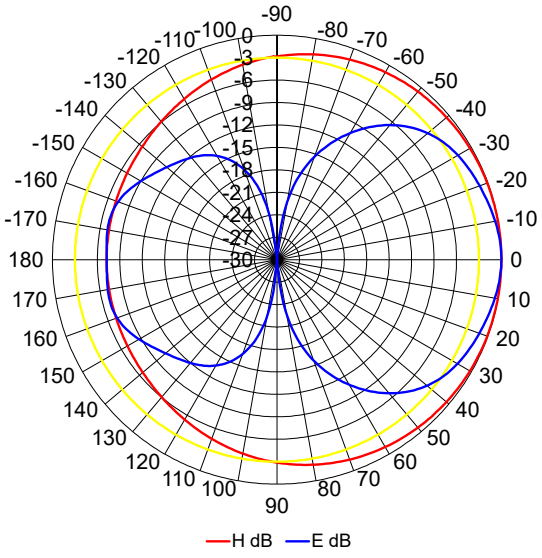


FREQUENCY INDEPENDENT DATA

Description:	offset pattern dual band dipole
Frequency:	50-300/300-3000 MHz f_0 ±2-4%
Impedance:	50 ohm
Gain:	5/5 dBi
H -3 dB:	182/244º, typical
E -3 dB:	72/50º, typical
F/B:	7/5 dB, typical
Polarization:	vertical/horizontal
Connector:	N-/ TNC/ 7/16-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Temperature:	-40ºC - +80ºC
IP:	67

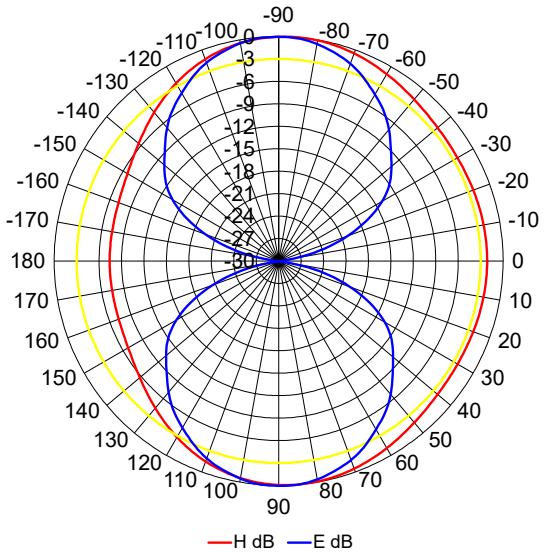
- *dual band operation*
- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *integrated RF choke*

RADIATION PATTERN VHF



HCM 091EC44 036EA00

RADIATION PATTERN UHF



HCM 000ND00 050EA00

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CAVHF/UHFD OFFSET PATTERN DUAL BAND DIPOLE

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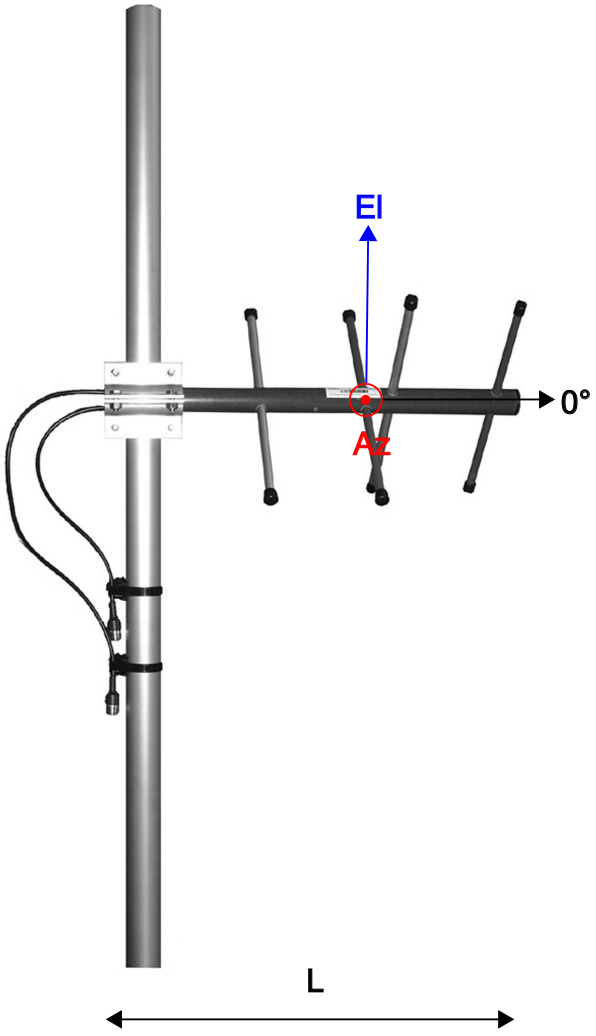
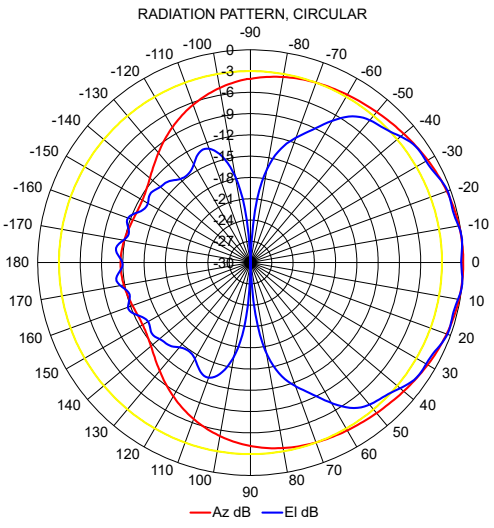


FREQUENCY INDEPENDENT DATA

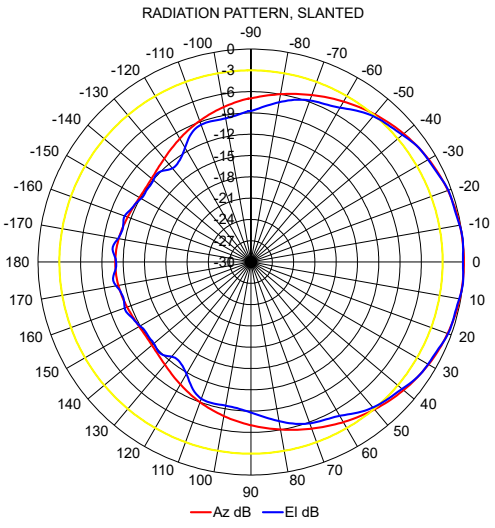
Description:	cross-polarized yagi, dual feed, physically quarter wavelength along the boom phased
Frequency:	380-410 MHz, 405-440 MHz, 440-475 MHz, 703-803 MHz, 791-862 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	6/6 dBi
H -3 dB:	140/103º
E -3 dB:	89/97º
F/B:	12/11 dB
Polarization:	circular/slanted
Isolation:	30 dB
Connector:	2*N- / 2*TNC- / 2*7/16-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CS-power splitter required in circular mode



HCM 070EB25 043LA00



HCM 051EA28 048EB00

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CAX CROSS-POLARIZED YAGI

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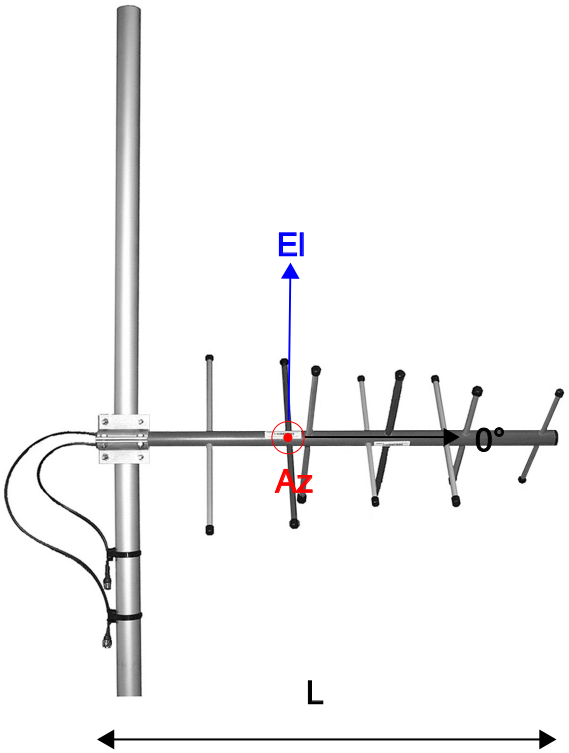


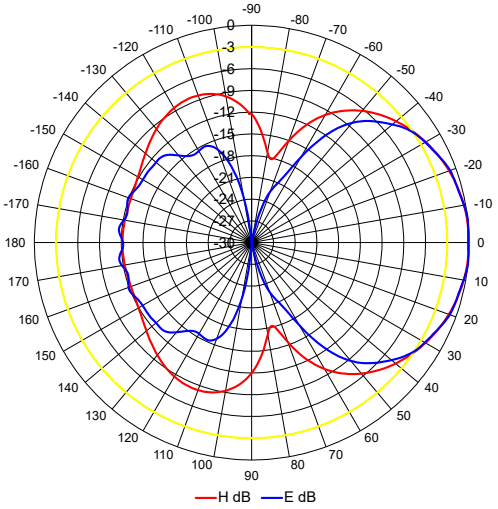
FREQUENCY INDEPENDENT DATA

Description:	cross-polarized yagi, dual feed, physically quarter wavelength along the boom phased
Frequency:	380-410 MHz, 405-440 MHz, 440-475 MHz, 703-803 MHz, 791-862 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	8/8 dBi
H -3 dB:	69/68º
E -3 dB:	68/65º
F/B:	12/12 dB
Polarization:	circular/slanted
Isolation:	30 dB
Connector:	2*N- / 2*TNC- / 2*7/16-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

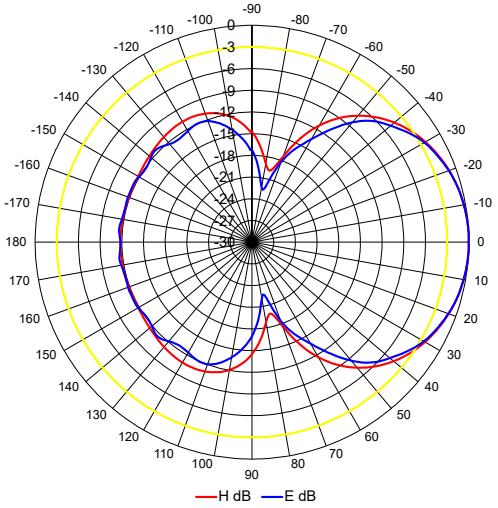
CS-power splitter required in circular mode

RADIATION PATTERN, CIRCULAR



HCM 037EA25 035LA00

RADIATION PATTERN, SLANTED



HCM 035EA28 033LA00

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CAX+ CROSS-POLARIZED YAGI

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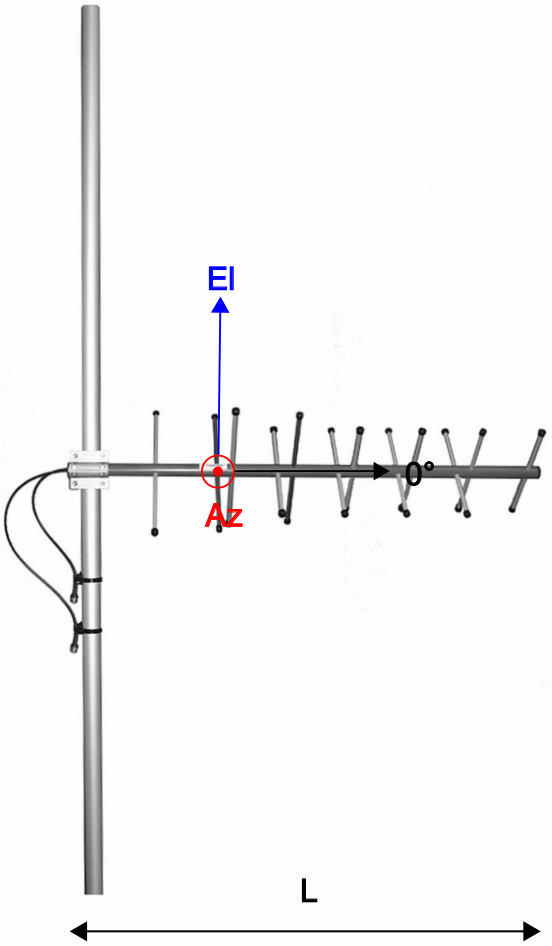
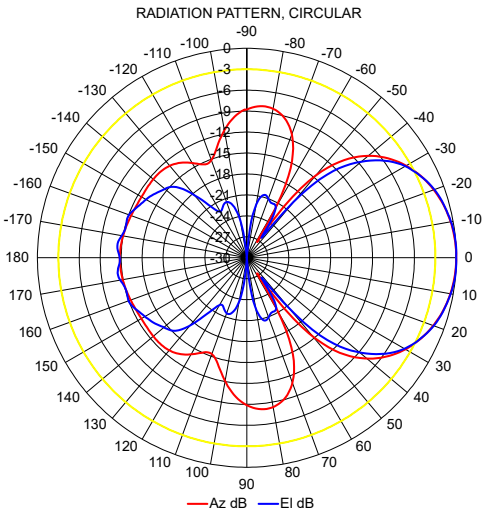


FREQUENCY INDEPENDENT DATA

Description:	cross-polarized yagi, dual feed, physically quarter wavelength along the boom phased
Frequency:	380-410 MHz, 405-440 MHz, 440-475 MHz, 703-803 MHz, 791-862 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	10/10 dBi
H -3 dB:	55/54º
E -3 dB:	54/52º
F/B:	12/11 dB
Polarization:	circular/slanted
Isolation:	30 dB
Connector:	2*N- / 2*TNC- / 2*7/16-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CS-power splitter required in circular mode



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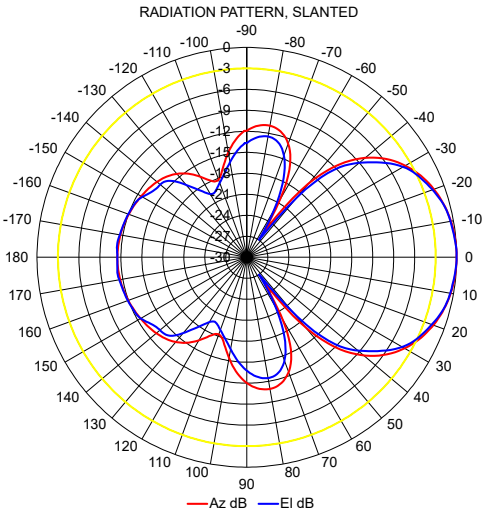

HCM 028EB28 027EB00

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CAX++ CROSS-POLARIZED YAGI

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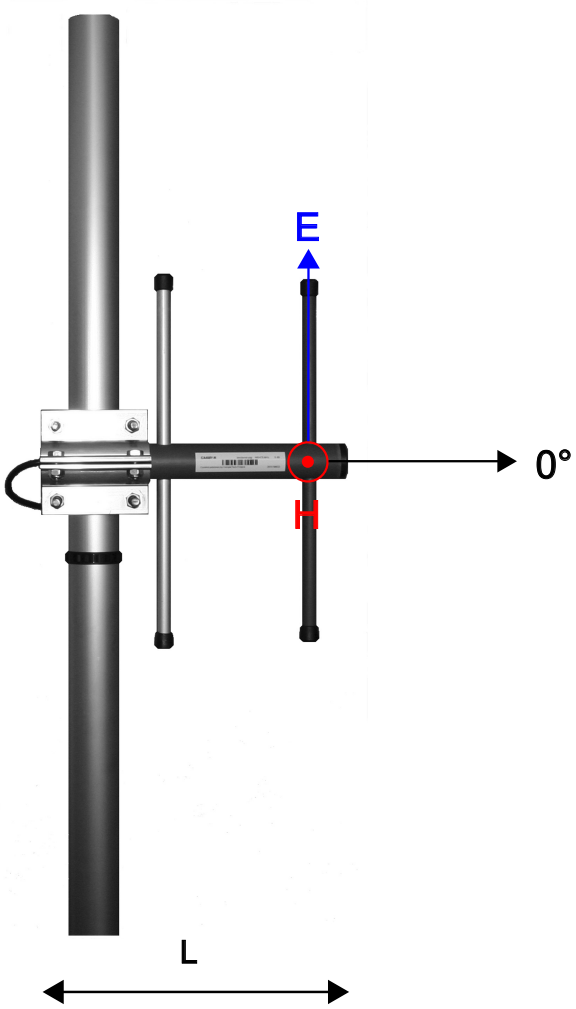
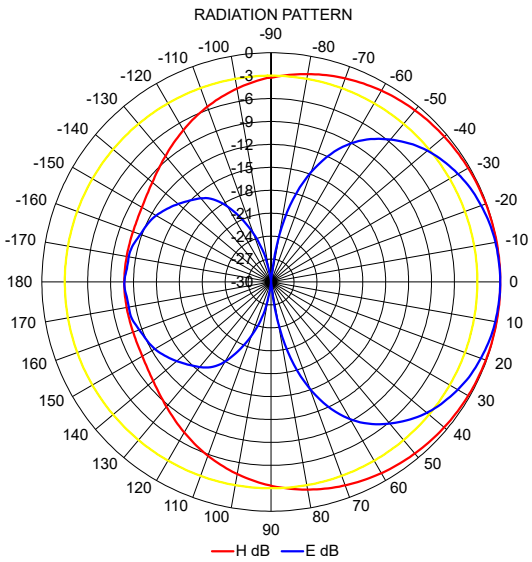


FREQUENCY INDEPENDENT DATA

Description:	directional yagi
Frequency:	135-145 MHz, 144-156 MHz, 154-166 MHz, 163-177 MHz, 221-239 MHz, 326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	6 dBi
H -3 dB:	174º
E -3 dB:	77º
F/B:	11 dB
Polarization:	vertical/horizontal
Connector:	N-/ TNC-/ 7/16-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



HCM 087EC28 038EA00

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

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CAY DIRECTIONAL YAGI

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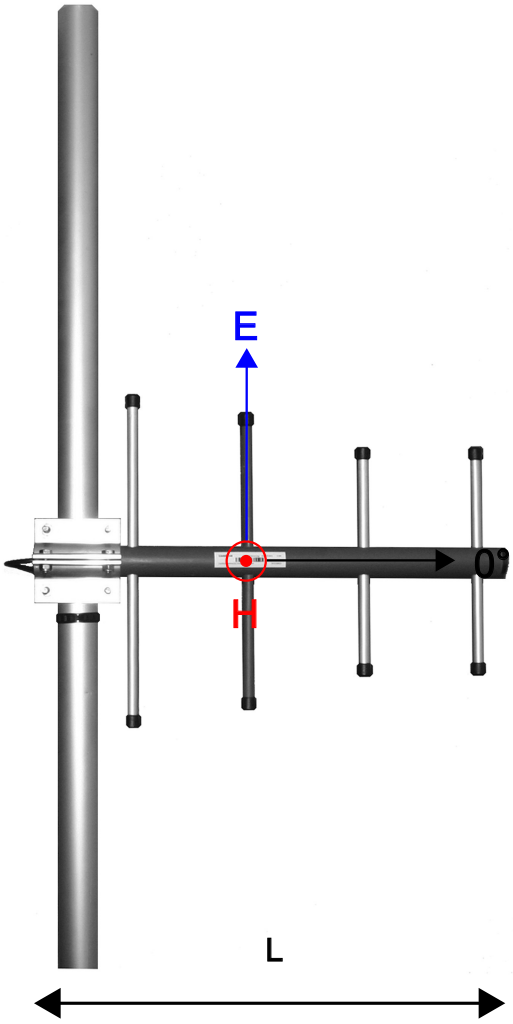
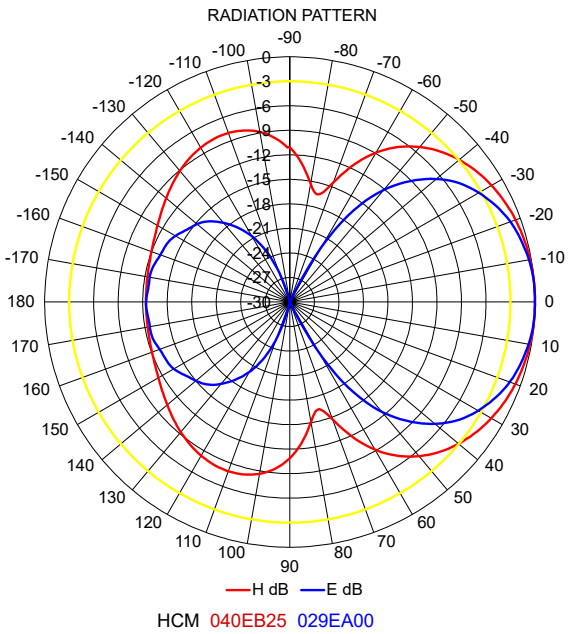


FREQUENCY INDEPENDENT DATA

Description:	directional yagi
Frequency:	135-145 MHz, 144-156 MHz, 154-166 MHz, 163-177 MHz, 221-239 MHz, 326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	8 dBi
H -3 dB:	80º
E -3 dB:	57º
F/B:	12 dB
Polarization:	vertical/horizontal
Connector:	N-/ TNC-/ 7/16-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAY+ DIRECTIONAL YAGI

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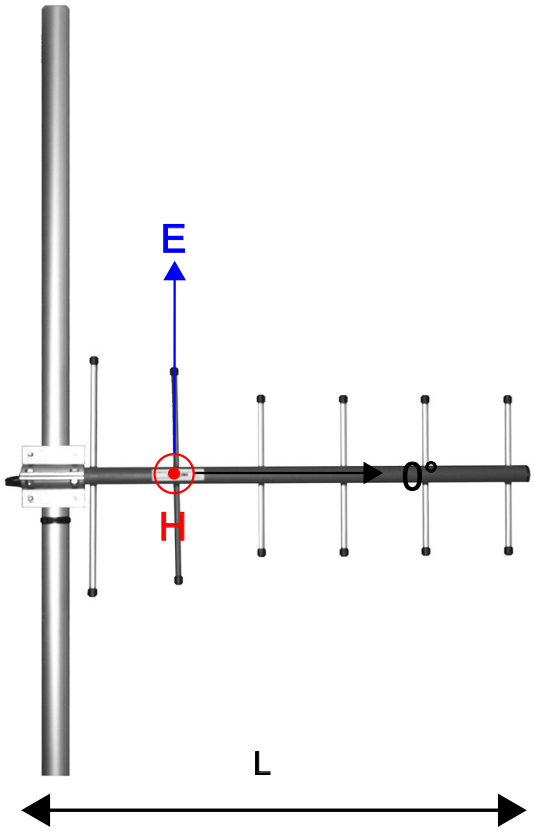
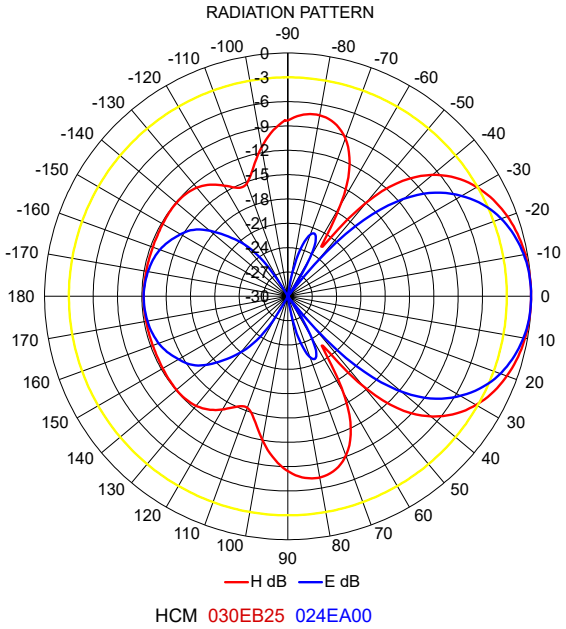


FREQUENCY INDEPENDENT DATA

Description:	directional yagi
Frequency:	326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	10 dBi
H -3 dB:	59º
E -3 dB:	47º
F/B:	12 dB
Polarization:	vertical/horizontal
Connector:	N-/ TNC-/ 7/16-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAY++ DIRECTIONAL YAGI

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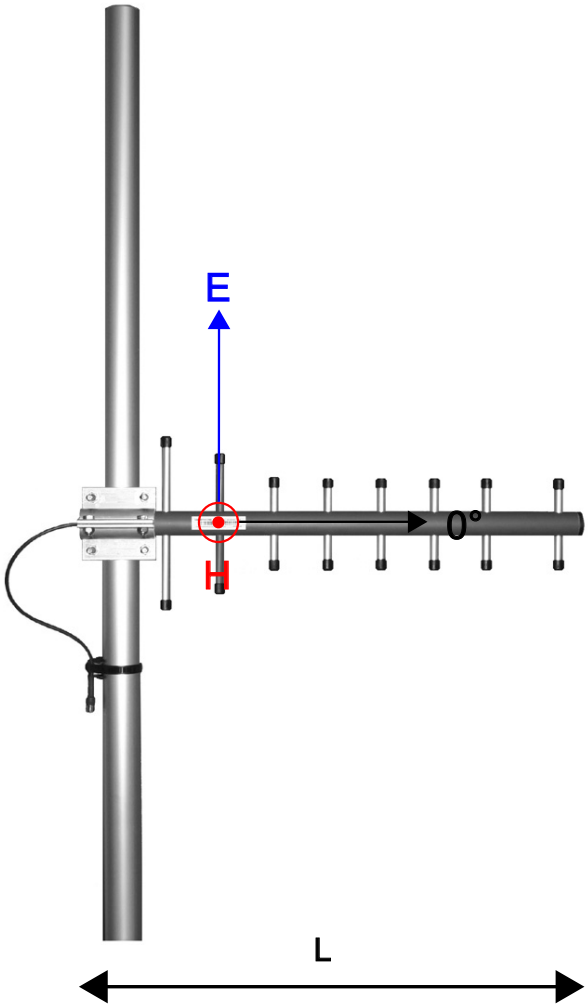
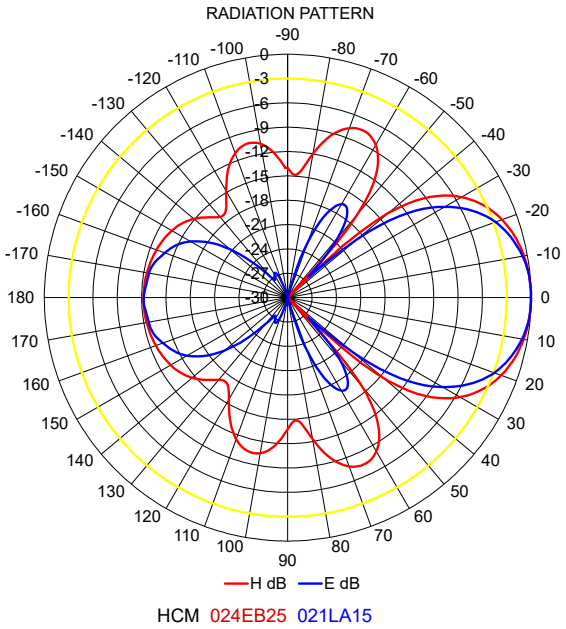


FREQUENCY INDEPENDENT DATA

Description:	directional yagi
Frequency:	326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	11 dBi
H -3 dB:	48º
E -3 dB:	41º
F/B:	12 dB
Polarization:	vertical/horizontal
Connector:	N-/ TNC-/ 7/16-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAY+++ DIRECTIONAL YAGI

CE

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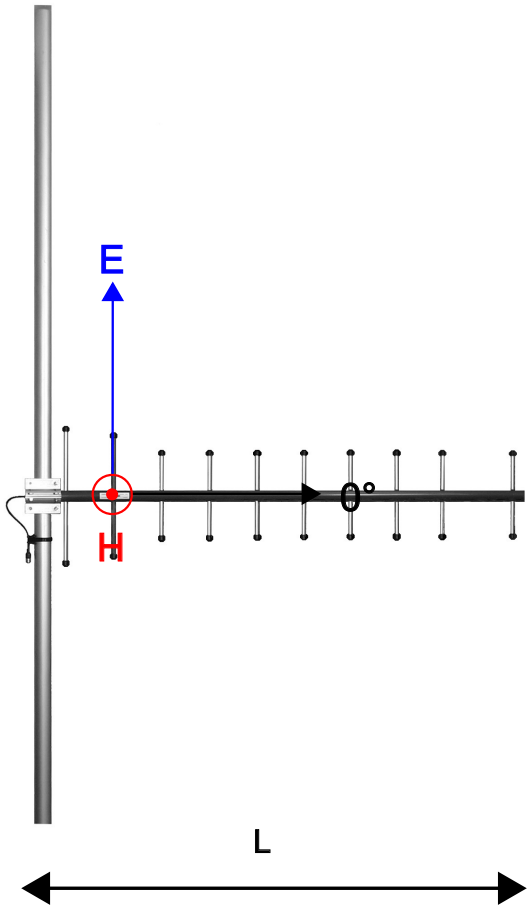
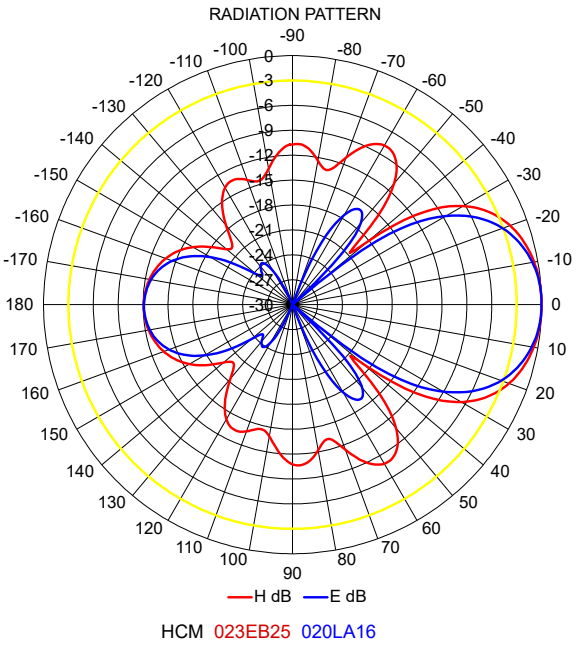


FREQUENCY INDEPENDENT DATA

Description:	directional yagi
Frequency:	326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 830-890 MHz, 880-960 MHz
Impedance:	50 ohm
Gain:	12 dBi
H -3 dB:	46º
E -3 dB:	39º
F/B:	12 dB
Polarization:	vertical/horizontal
Connector:	N-/ TNC-/ 7/16-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67



- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

CAY+++ DIRECTIONAL YAGI

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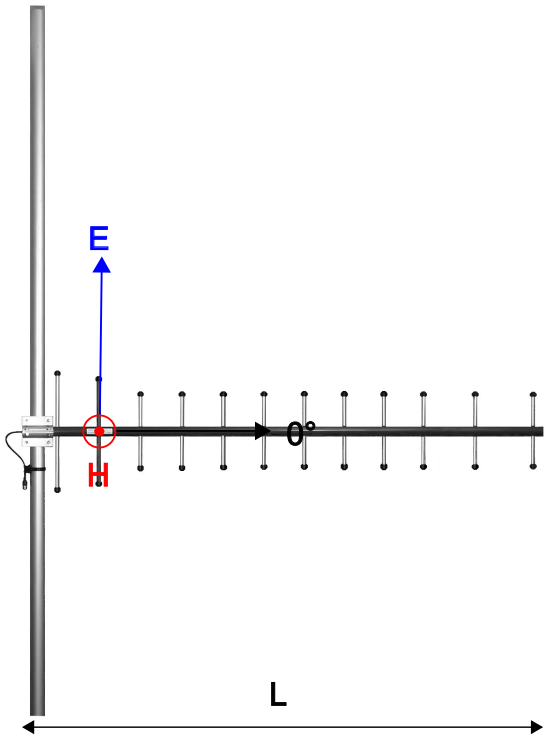
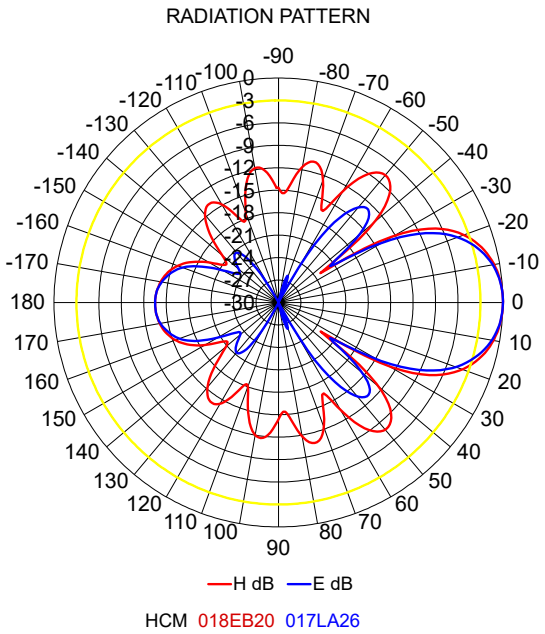


FREQUENCY INDEPENDENT DATA

Description:	directional yagi
Frequency:	380-410 MHz, 405-440 MHz, 440-475 MHz
Impedance:	50 ohm
Gain:	13 dBi
H -3 dB:	37º
E -3 dB:	33º
F/B:	14 dB
Polarization:	vertical/horizontal
Connector:	N-/ TNC-/ 7/16-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*



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CAY++++ DIRECTIONAL YAGI

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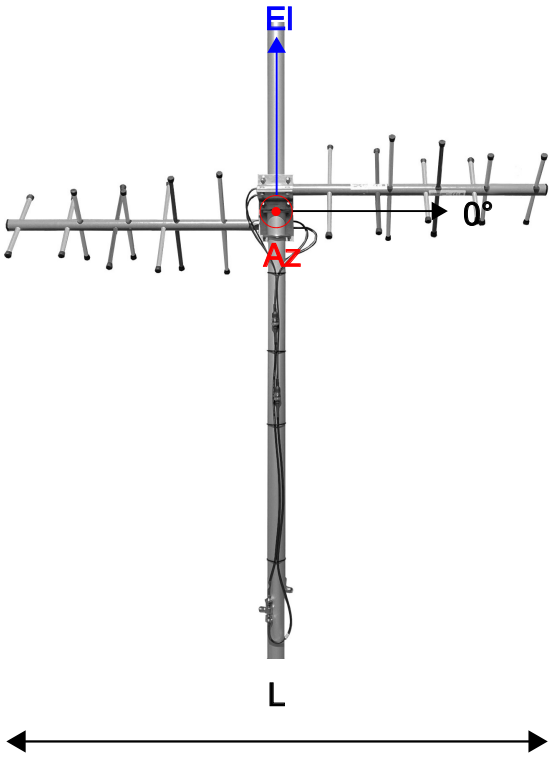


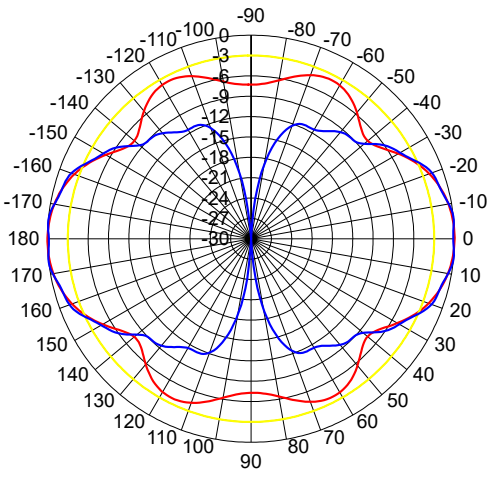
FREQUENCY INDEPENDENT DATA

Description:	cross-polarized end-fire yagi array, dual feed, physically quarter wave-length along the boom phased
Frequency:	380-410 MHz, 405-440 MHz, 440-475 MHz
Impedance:	50 ohm
Gain:	6/7dBi
Az -3 dB:	47/48º
El -3 dB:	49/48º
F/B:	0/0 dB
Polarization:	circular/slanted
Isolation:	30 dB
Connector:	2*N-female / 2*TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

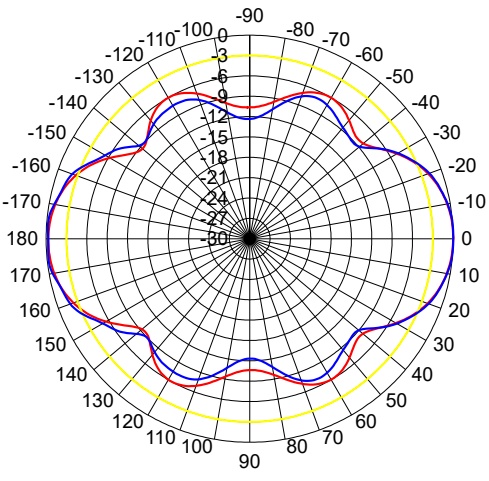
CS-power splitter required in circular mode

RADIATION PATTERN, CIRCULAR



HCM 024DE65 025DE00

RADIATION PATTERN, SLANTED



HCM 024DE50 024EC00

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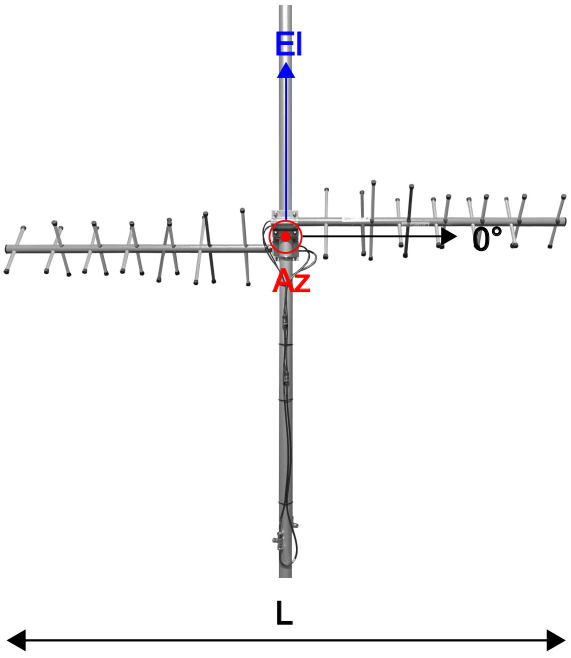
CAXF2+ CROSS-POLARIZED END-FIRE YAGI ARRAY

ComAnt® Communications Antennas



FREQUENCY INDEPENDENT DATA

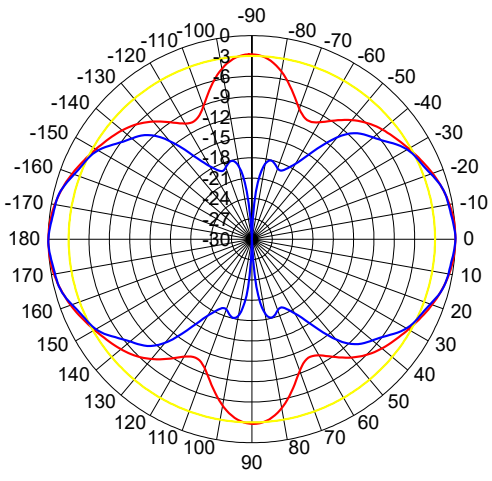
Description:	cross-polarized end-fire yagi array, dual feed, physically quarter wave-length along the boom phased
Frequency:	380-410 MHz, 405-440 MHz, 440-475 MHz
Impedance:	50 ohm
Gain:	7/9 dBi
Az -3 dB:	56/40º
El -3 dB:	53/41º
F/B:	0/0 dB
Polarization:	circular/slanted
Isolation:	30 dB
Connector:	2*N-female / 2*TNC-female
VSWR:	< 1.5
Radome:	UV resistant ABS/FG, RAL 7012, PU foam filling
Radiator:	copper
Passive elements:	coated aluminium
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Lightning protection:	DC-short circuited
Temperature:	-40ºC - +80ºC
IP:	67

CAXF2++ CROSS-POLARIZED END-FIRE YAGI ARRAY

- *combination of durability, light weight and low wind load*
- *radome enclosed radiator*
- *IP67 proof construction*
- *all electromechanics moulded inside of closed cell PU foam*
- *DC shorted feed point*
- *integrated impedance compensation*
- *integrated RF choke*

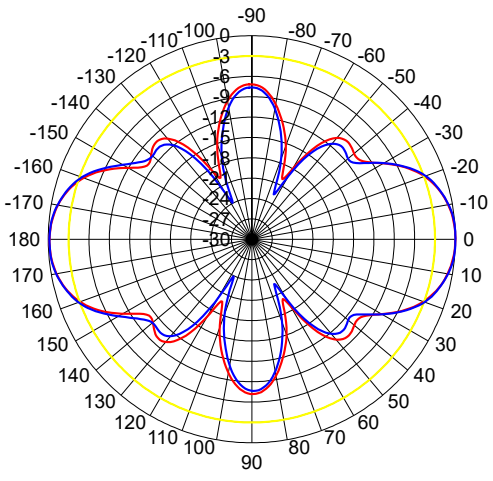
CS-power splitter required in circular mode

RADIATION PATTERN, CICULAR



HCM 029EB25 029EA00

RADIATION PATTERN, SLANTED



HCM 028EB28 027EB00

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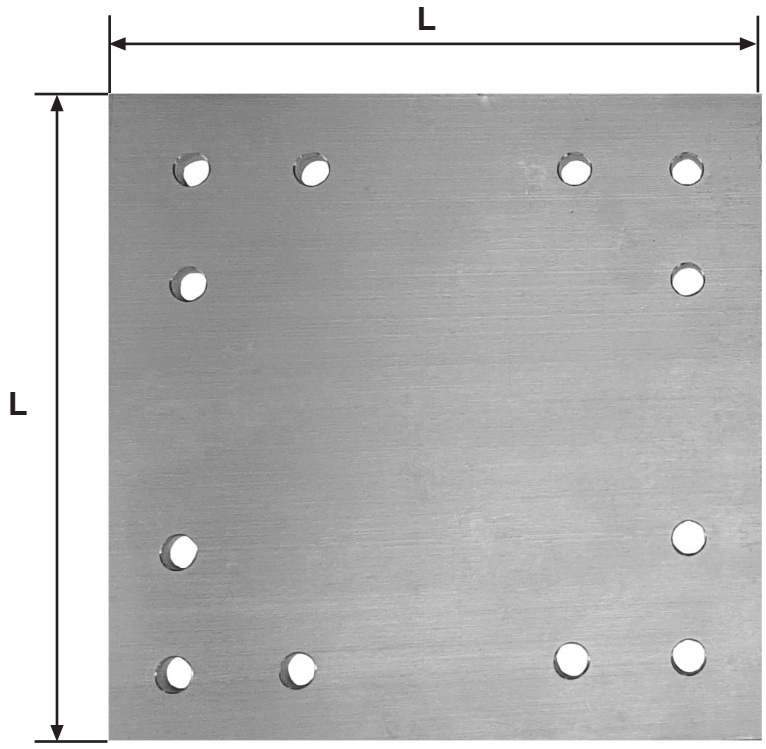

CP cross mount plate enables junctions of crossing poles of 35-60/35-60 mm or 35-60/60-120 mm in diameter.

The cross mount plate is mounted between the poles with **VS60/VS120** V-bolt sets.

CP CROSS MOUNT PLATE

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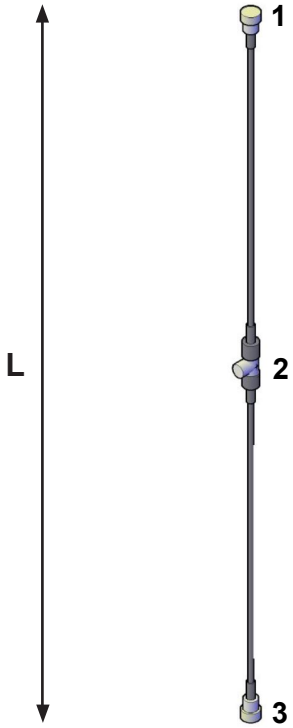
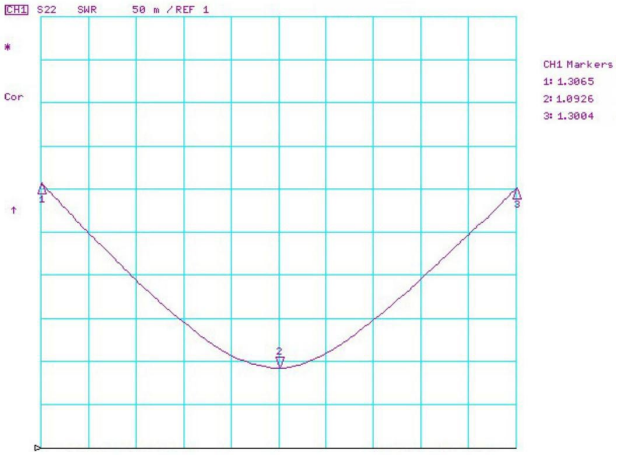


FREQUENCY INDEPENDENT DATA

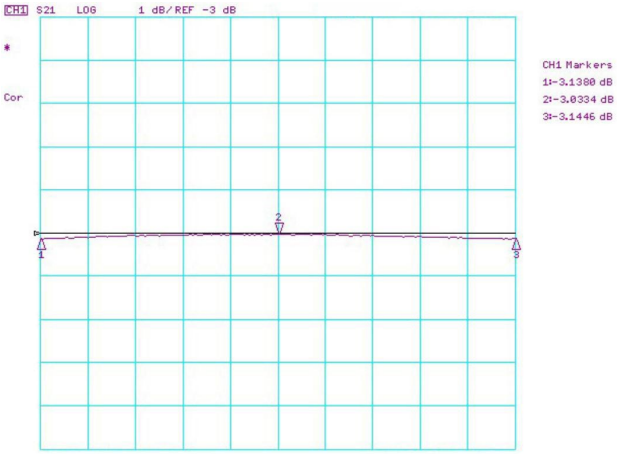
Description:	2 to 1 power combiner / 1 to 2 power splitter
Frequency:	80-90 MHz, 135-145 MHz, 144-156 MHz, 154-166 MHz, 163-177 MHz, 221-239 MHz, 326-353 MHz, 336-364 MHz, 365-395 MHz, 380-410 MHz, 405-440 MHz, 440-475 MHz, 703-803 MHz, 791-862 MHz, 830-890 MHz, 880-960 MHz, 2412-2484 MHz
Impedance:	50 ohm
Connector:	N-female - 2*N-male/ TNC-female - 2*TNC-male
VSWR:	< 1.5
Temperature:	-40ºC - +80ºC
IP:	67, 62

- *combining multiple antennas*
- *building up distribution cable harness*
- *1 to 2 power splitting ratio*
- *different splitting ratios by cascading*
- *no additional jumper cables or connectors required*
- *minimizes the amount of junctions and losses*

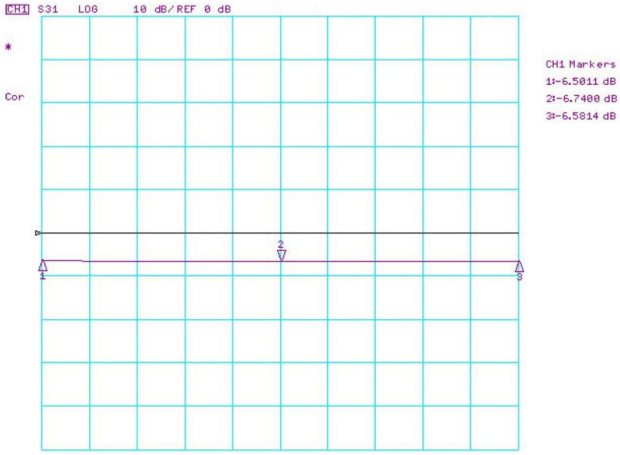
S_{22}



S_{21}



S_{31}



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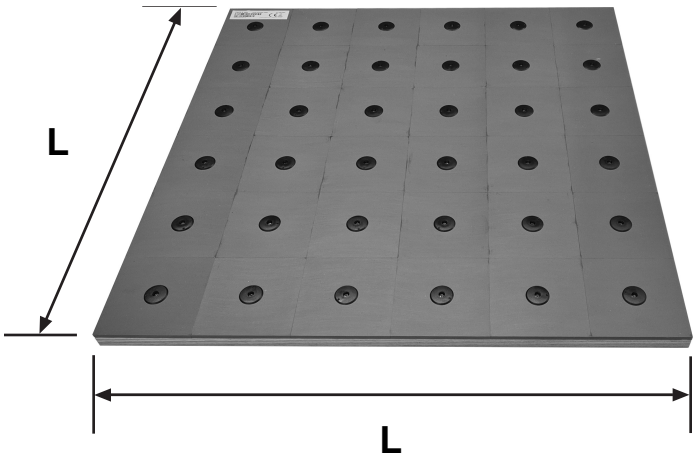
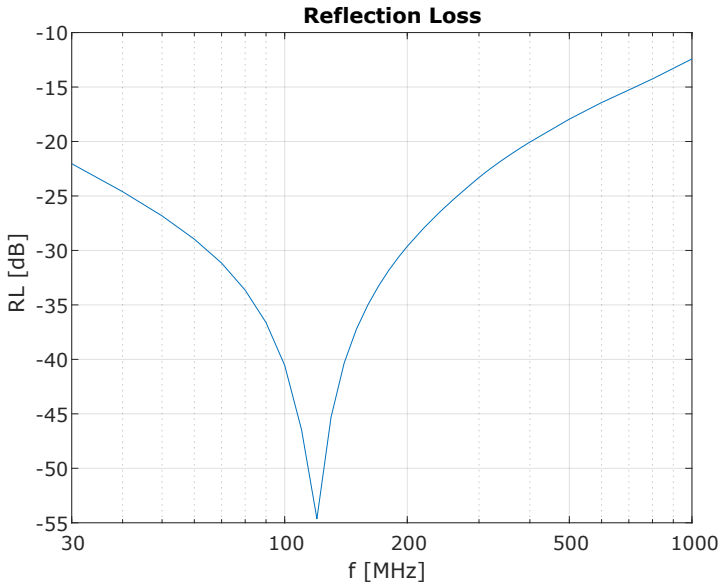
CS 1 TO 2 POWER SPLITTER

FAP600 FERRITE ABSORBER PANEL





FAP600 is a 600*600 mm square ferrite absorber panel designed for the 30 – 1000 MHz frequency range.

FAP600 consists of 6*6 array of 5.2*100*100 mm ferrite tiles backed by an aluminium foil layer and supported by a 15*600*600 mm plywood sheet.

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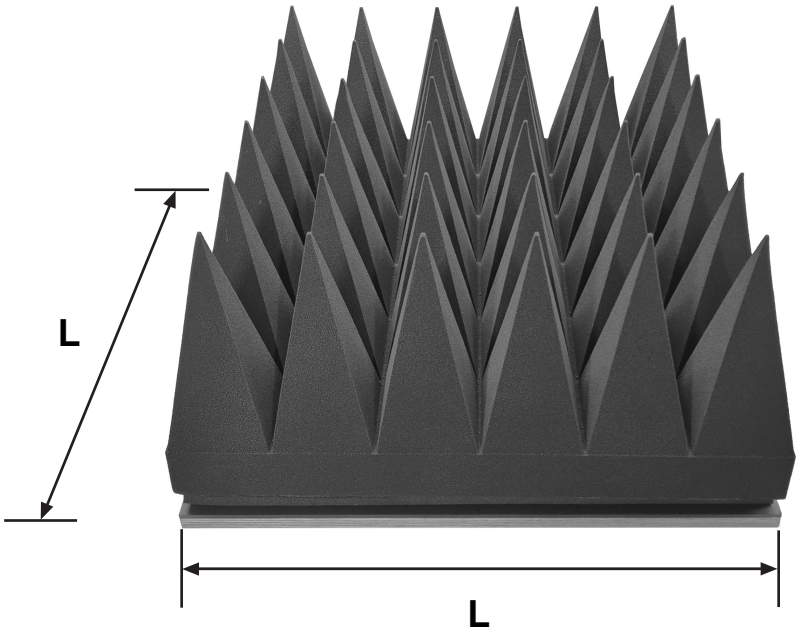

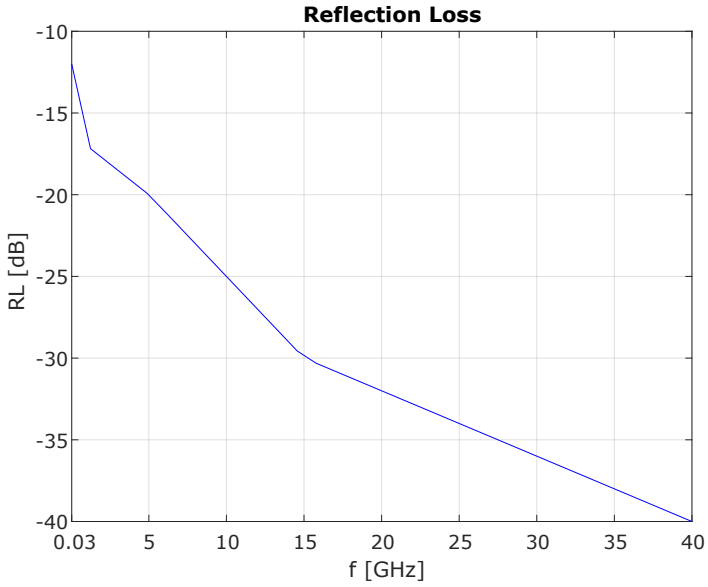

HAP600 is a 600*600 mm hybrid absorber panel designed for the 1 – 40 GHz frequency range.

HAP600 consists of 300*600*600 mm pyramidal foam absorber mounted on 6*6 array of 5.2*100*100 mm ferrite tiles backed by an aluminium foil layer and supported by a 15*600*600 mm plywood sheet.

HAP600 HYBRID ABSORBER PANEL

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GC GROUNDING CABLE

GC isolated Cu-grounding cable is compatible with standard ComAnt-lightning protection components: GS, LP and LR.

CE

RoHS Compliant

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GS GROUNDING STRIP

GS A2 grounding strip provides an earthing junction
between Ø 17 - 48 round pole or cable and
1 x 16 mm² - 2 x 25 m² grounding cable.

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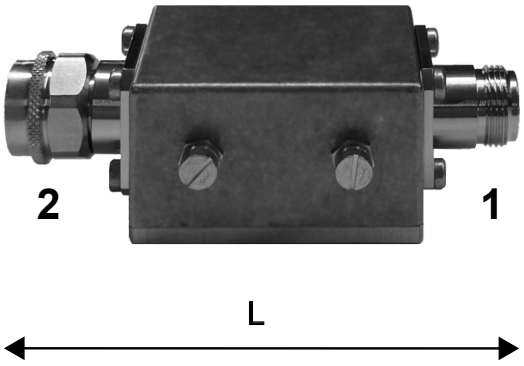


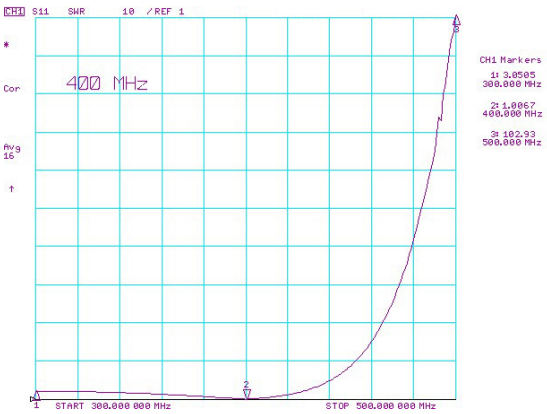
FREQUENCY INDEPENDENT DATA

Description:	antenna circuit impedance tuner, low pass filter
Frequency:	100-200 MHz, 300-500 MHz
Impedance:	50 ohm
VSWR:	1.0
Tuning range:	1.5 → 1.0
Insertion loss:	< 0.1 dB
Connector:	N-female - N-male
Enclosure:	diecast aluminium alloy
Inductor:	silver plated copper
Capacitor:	gold/silver plated brass
Temperature:	-40ºC - +80ºC
IP:	54

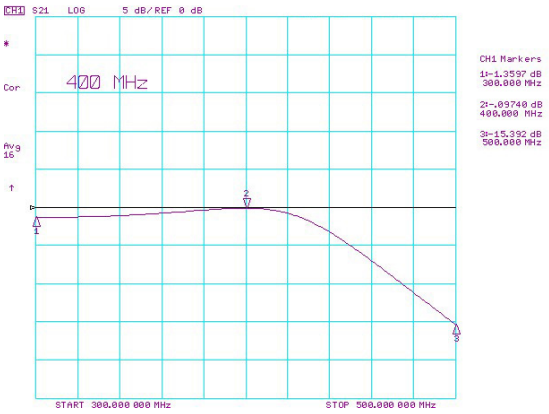
- *optimized antenna circuit impedance match*
- *reduction of harmonic interference*
- *enhanced same/adjacent channel duplex with RH ring hybrid*

IT IMPEDANCE TUNER

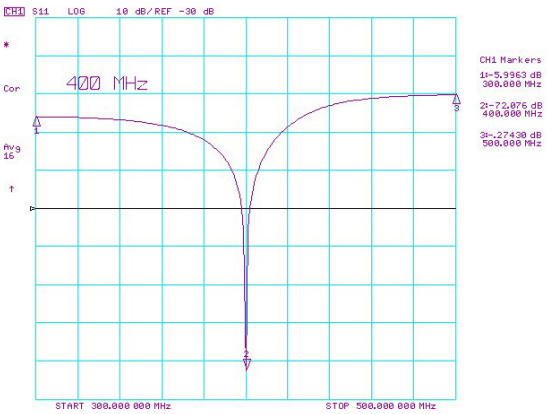
S_{11} SWR



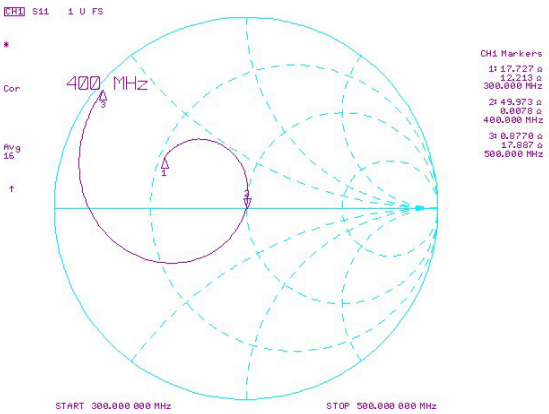
S_{21}



S_{11} RL



S_{11} Smith



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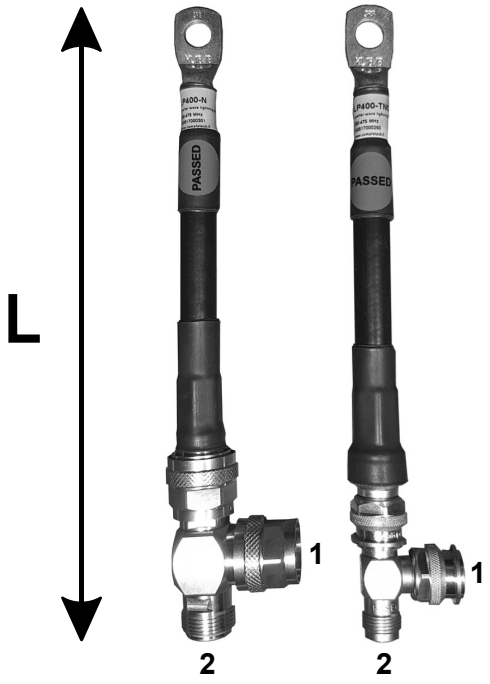
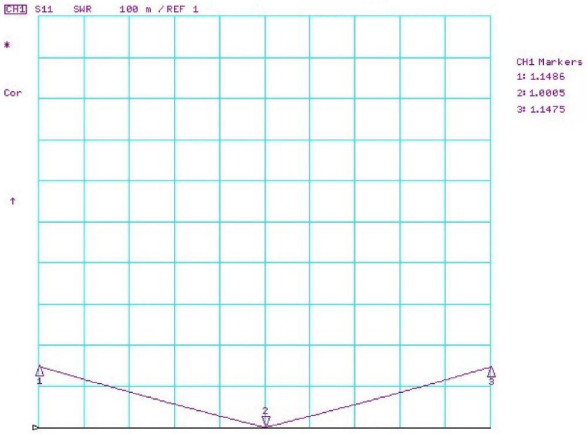


FREQUENCY INDEPENDENT DATA

Description:	lightning protector, quarter wave shorting stub
Frequency:	70-90 MHz, 126-154 MHz, 144-176 MHz, 210-250 MHz, 315-385 MHz, 380-475 MHz, 770-890 MHz, 830-960 MHz, 2300-2500 MHz
Impedance:	50 ohm
Connector:	N-female - N-male, TNC-female - TNC-male, UHF-female - UHF-male
VSWR:	< 1.2
Insertion loss:	< 0.1 dB
Surge current:	> 20kA (8/20 µs)
Attachment:	M8
Temperature:	-40ºC - +80ºC -55ºC - +80ºC low temp version

- *maintenance free*
- *continuous communication*
- *no fuse like components*
- *no non-linear (semiconductor) components*
- *immediate response*
- *no voltage increase*
- *low residual pulse*
- *intermodulation safe*
- *DC short and direct ground*
- *band pass filter*
- *cancels even harmonic frequencies*

S_{11}



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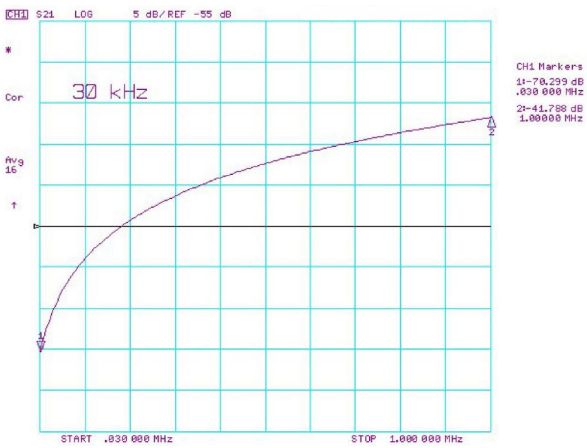

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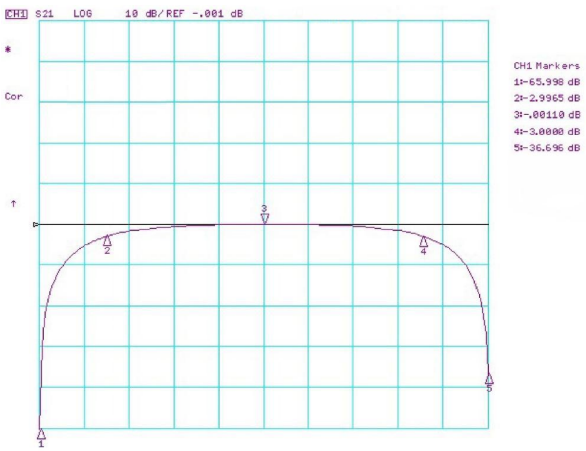

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LP LIGHTNING PROTECTOR

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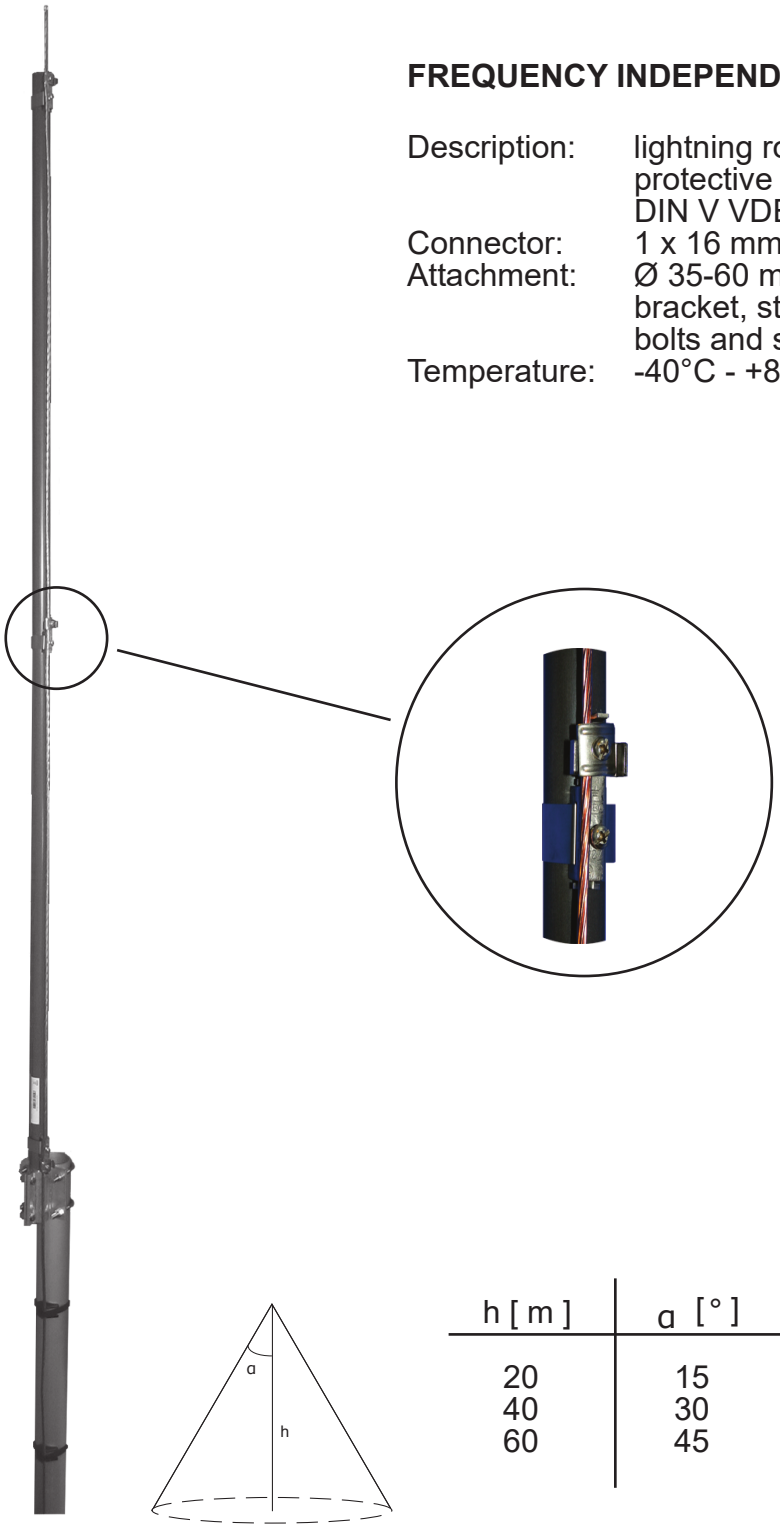
LR LIGHTNING ROD SUPPORT



FREQUENCY INDEPENDENT DATA

Description:	lightning rod support, protective cone according to DIN V VDE 0185
Connector:	1 x 16 mm^2 - 2 x 25 mm^2
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts
Temperature:	-40°C - +80°C

h [m]	a [°]
20	15
40	30
60	45

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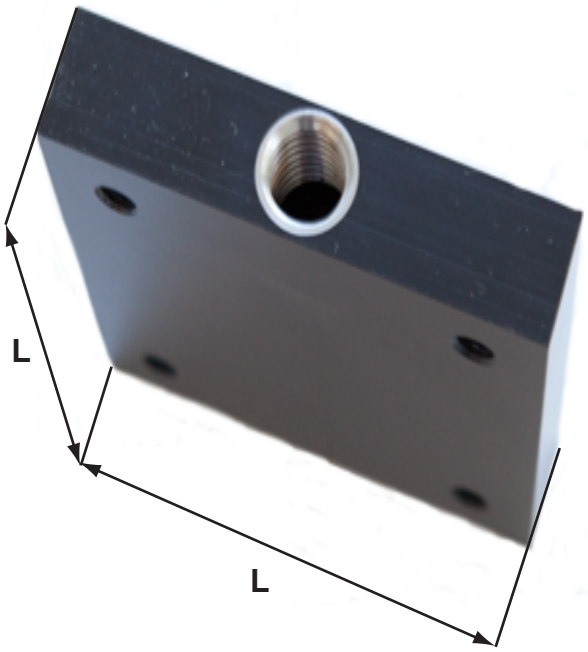
MA58 MOUNTING ADAPTOR



MA58 mounting adaptor enables antenna mounting to a land survey tripod with 5/8” thread. Compatible with standard ComAnt-antennas.

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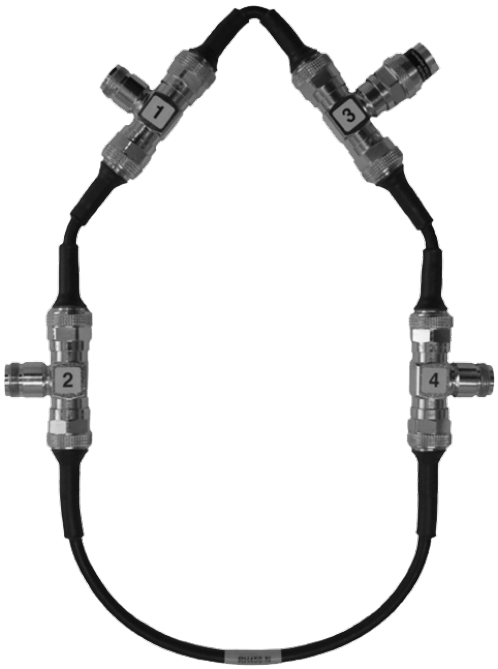


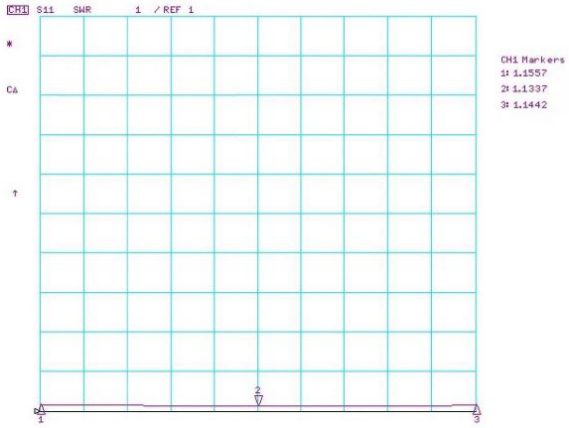
FREQUENCY INDEPENDENT DATA

Description:	ring hybrid combiner/splitter
Frequency:	f_0 ±3.8 %
Impedance:	50 ohm
VSWR:	<1.2
Insertion loss:	< 3.25 dB
Isolation:	30 - 70 dB
Connector:	4*N-female
Temperature:	-35ºC - +80ºC
IP:	67

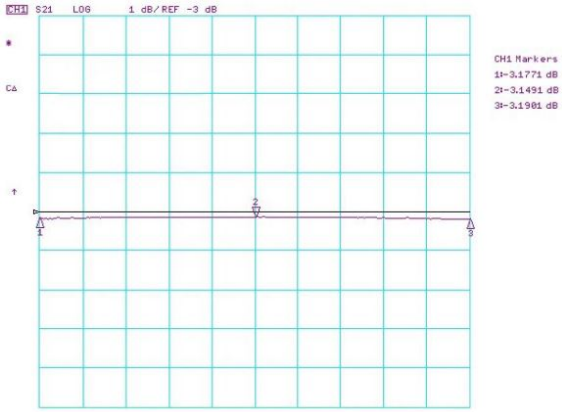
- *dual radios connected to a single antenna*
- *hot stand by same channel redundancy*
- *adjacent channel simultaneous operation*

Operation mode	Port 1	Port 2	Port 3	Port 4
Combiner 180°	Input 0°	Output	Terminated	Input 180°
Splitter 180°	Output 0°	Input	Terminated	Output 180°
Combiner 0°	Output 0°	Input 0°	Input 0°	Terminated
Splitter 0°	Input 0°	Output 0°	Output 0°	Terminated
Σ / Δ 0°	Σ Output	Input 0°	Input 0°	Output

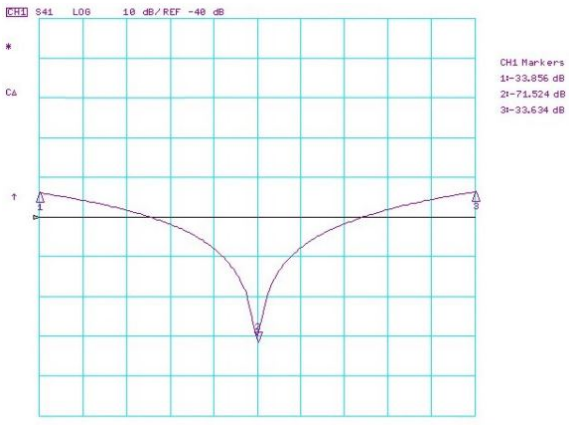
S_{11}



S_{21}



S_{41}



RH RING HYBRID

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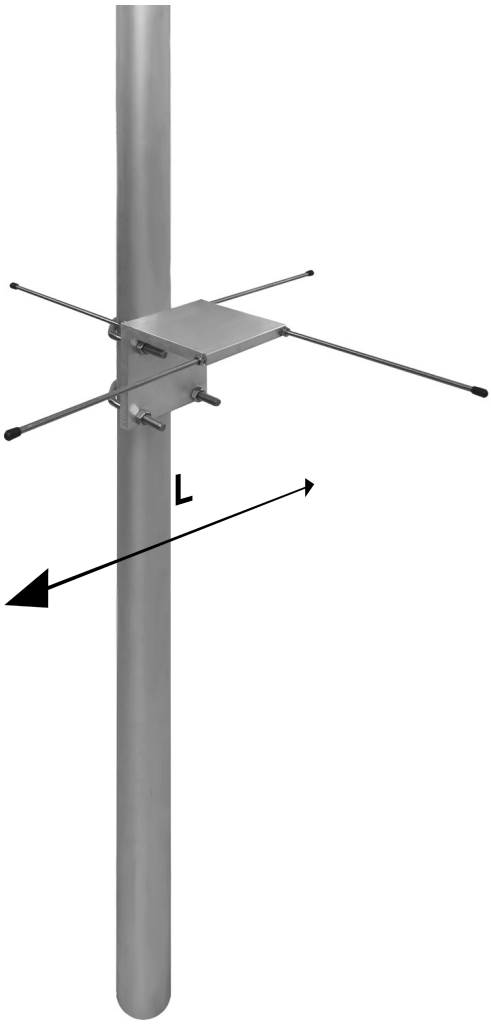

FREQUENCY INDEPENDENT DATA

Description:	repeater kit, 10 dB additional isolation between two antennas on the same vertical axis
Frequency:	88-108 MHz, 138-161 MHz, 154-166 MHz, 350-410 MHz, 380-450 MHz, 405-475 MHz, 830-890 MHz
Isolation:	10 dB
Rods:	stainless steel
Attachment:	Ø 35-60 mm, aluminium alloy bracket, stainless steel V-bolts and self-locking nuts

RK REPEATER KIT

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SG closed spark gap can handle lightning discharge currents of 100 kA (8/20 µs). Connection 2 x A2 M10.

SG SPARK GAP

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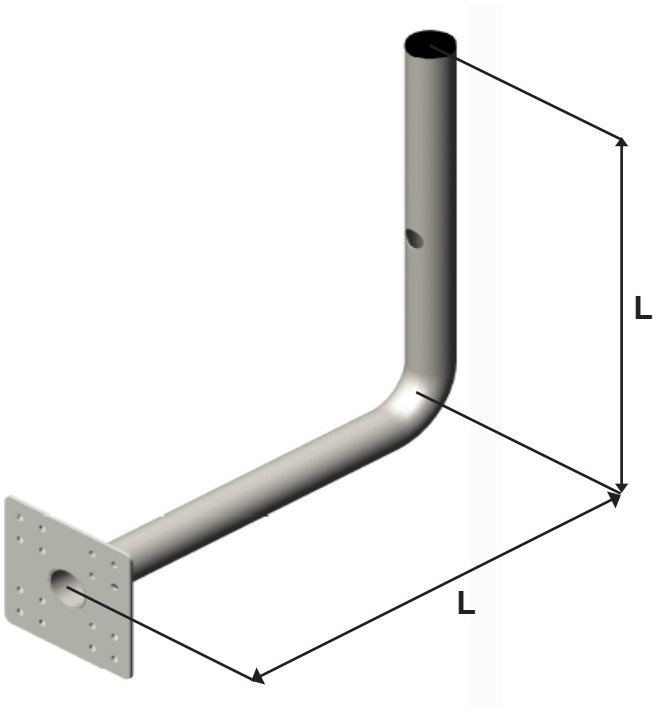
SM500 SIDE MOUNT



SM500 A2 side mount provides side mounting to a wall or a pole. Compatible with standard ComAnt-accessories: VS60, VS120 and TP60/120.

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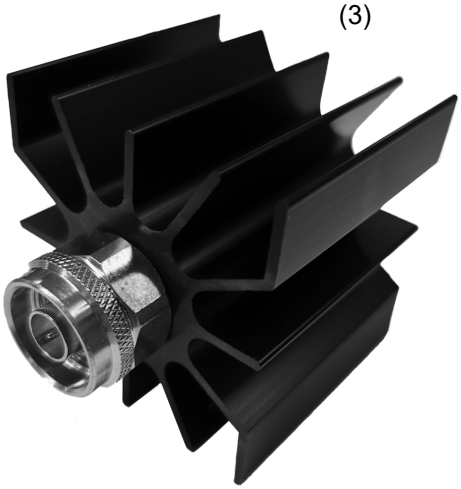
(1)

(2)

(3)



FREQUENCY INDEPENDENT DATA

Description:	termination 50 ohm
Frequency:	0-4 GHz (1), 0-7 GHz (2), 0-18 GHz (3)
Maximum power handling:	1 W (1), 5 W (2), 10 W (3)
Typical VSWR @ 1 GHz:	< 1.04 (1), < 1.05 (2), < 1.02 (3)
Impedance:	50 ohm
Connector:	N-male
Temperature:	-55°C - +125°C

(1) TM1-N
(2) TM5-N
(3) TM10-N

TM TERMINATION 50Ω

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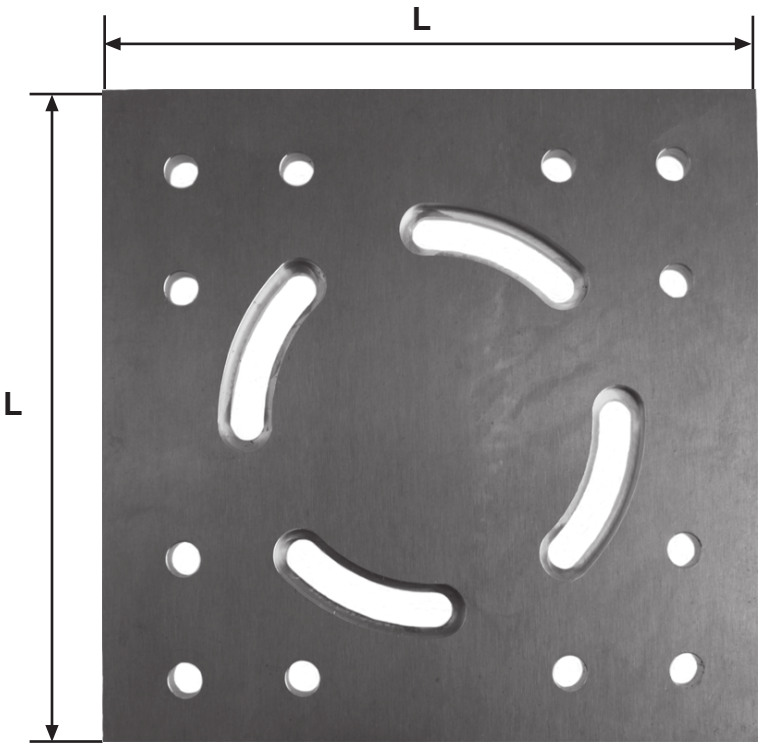

TP mechanical tilting plate allows, depending on the mounting orientation, a mechanical down or up tilting up to 45 degrees. The tilting angle is continuously adjustable. It can be also used to adjust the antenna orientation on horizontal plane when the antenna is mounted on a horizontal pole.

The mechanical beam tilting plate is mounted between the original antenna mount and pole with 4 pcs of M8 bolts and self-locking nuts supplied with the tilting plate. The original V-bolts supplied with the antenna are used to mount the beam tilting plate to the pole.

TP TILTING PLATE

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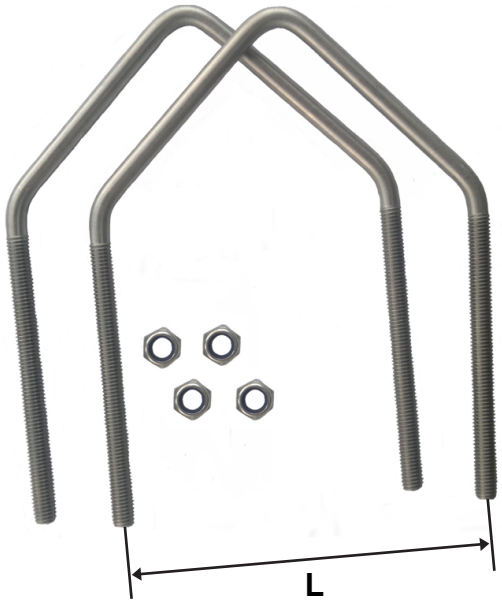
VS V-BOLT SET



VS is a complete set of A4 M8 V-bolts (2 pcs) and A4 M8 Nylock nuts (4 pcs). Two versions available: VS60 (Ø 35-60) and VS120 (Ø 60-120). Compatible with standard ComAnt-mounting accessories.

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