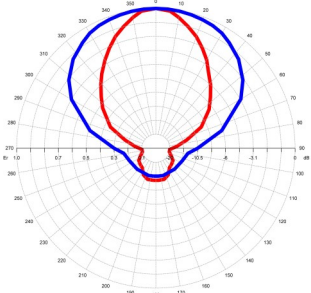


**ELECTRICAL DATA**

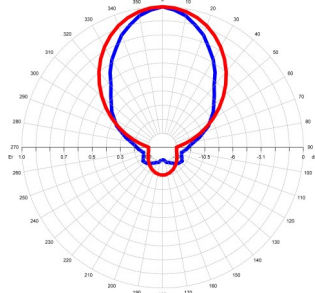
WORKING BAND: 87.5÷108 MHz  
 BANDWIDTH: FM band  
 GAIN: 3 dBd (5.2 dBi)  
 VSWR: ≤ 1.19:1 (-21.23 dB) circular polarization  
 POLARIZATION: circular, elliptical, linear  
 IMPEDANCE: 50 Ohm balanced  
 HALF POWER BEAMWIDTH:  
 Vertical component - E-Plane 79° - H-Plane 62°  
 Horizontal component - E-Plane - 63° - H-Plane - 119°  
 LIGHTNING PROTECTION: all metal parts DC grounded  
 including inner conductors  
 AVAILABLE VERSIONS AND CODE:  
 APX0202520 and APX0202510 - 2xEIA 7/8" - 2x2500 W

horizontal component



H-Plane and E-Plane

vertical component



H-Plane and E-Plane

**MECHANICAL DATA**

MATERIALS: dipoles in aluminium  
 internal lines in copper and brass  
 hot dip galvanized steel (model APX0202520)  
 or aluminium (model APX0202510) reflecting grid  
 teflon isolators, silicon O-Rings.  
 MOUNTING: directly on supporting structure  
 MOUNTING BRACKETS: optional (code XZACP)  
 for Ø 60÷114mm. pipe  
 TREATMENTS: reflecting grid in hot dip galvanized steel,  
 silver plated lines and connectors,  
 military grade treated (MIL-C-4451) dipoles  
 PRESSURIZZATION: 5.0 psi  
 ANTENNA DIMENSIONS: 2790x2200x1100 mm  
 WEIGHT: APX0502520: 80 Kg - APX0502510: 50 Kg  
 WIND SURFACE: 1.25 m<sup>2</sup> front - 0.36 m<sup>2</sup> side  
 WIND LOAD (at 160Km/h and 30° C air temperature):  
 191.69 Kg front - 48.51 Kg side  
 SURVIVAL WIND: 220Km/h  
 PACKING DIMENSIONS:  
 reflecting grid : box 2200x1200x135 mm  
 dipoles: box 1100x300x300 mm  
 APX0502520: 110 Kg gross - APX0502510: 80 Kg gross

**ARRAY DATA**

BAY	PANEL PER BAY	SYSTEM GAIN (dBd) <sup>1</sup>	GAIN TIMES <sup>1</sup>	WEIGHT (Kg) <sup>2 4</sup>	SYSTEM HEIGHT (mt)	WIND LOAD (Kg) <sup>3</sup>
2	1	6.0	3.98	128	4.9	383.4
4	1	9.0	7.94	253	10.3	766.8
6	1	10.8	12.02	397	15.7	1150.1
8	1	12.0	15.85	519	21.1	1533.5
1	2	0.3	1.07	128	2.2	240.2
2	2	3.3	2.14	253	4.9	480.4
4	2	6.4	4.37	519	10.3	960.8
6	2	8.1	6.46	776	15.7	1441.2
8	2	9.4	8.71	1025	21.1	1921.6
1	3	-0.3	0.93	191	2.2	288.7
2	3	2.7	1.86	397	4.9	577.4
4	3	5.7	3.72	776	10.3	1154.8
6	3	7.5	5.62	1191	15.7	1732.3
8	3	8.7	7.41	1552	21.1	2309.7
1	4	0.6	1.15	253	2.2	288.7
2	4	2.5	1.78	519	4.9	577.4
4	4	5.5	3.55	1025	10.3	1154.8
6	4	7.2	5.25	1552	15.7	1732.3
8	4	8.5	7.08	2479	21.1	2309.7

1 - gain referred at mid band -1<sup>st</sup> null filling and electrical tilt not take into account  
 2 - mounting hardware not take into account  
 3 - 160Km/h wind and 30° C air temperature  
 4 - Weight referred to APX0502520 model

Antenna a pannello con doppio dipolo incrociato.  
 Irradiazione direttiva.  
 Adatta per sistemi FM collineari o per accoppiamenti a 90°  
 Smontabile.  
 Banda larga 87.5 ÷ 108 MHz.

Antenna panel with double crossed dipole.  
 Directional radiation pattern.  
 Suitable for FM stacked-array or 90° coupling antenna system.  
 Demountable  
 Broadband 87.5 ÷ 108 MHz.

