

ELECTRICAL DATA**WORKING BAND:** 87.5÷108 MHz**BANDWIDTH:** FM band**GAIN:** 0,45 dBd (2,65 dBi)**VSWR:** ACF020221x ≤ 1,4:1 (-15,5 dB)

ACF020223x ≤ 1,35:1 (-16,5 dB)

VSWR (Hi or Lo version): ACF020221x ≤ 1,3:1 (-17,7 dB)

ACF020223x ≤ 1,27:1 (-18,5 dB)

POLARIZATION: Circular**IMPEDANCE:** 50 Ohm unbalanced**HALPOWER BEAMWIDTH:**

Vertical component - E-Plane - 87°

Vertical component - H-Plane - 219°

Horizontal component - E-Plane - 90°

Horizontal component - H-Plane - 360°

LIGHTNING PROTECTION: all metal parts DC grounded including inner conductors**AVAILABLE VERSION AND CODE:**

ACF0202215 & ACF0202235 - EIA 7/8" flange - max. 5000W

ACF0202216 & ACF0202236 - DIN 7/16 f. conn. - max. 3000W

ACF0202217 & ACF0202237 - N fem. conn. - max. 800W

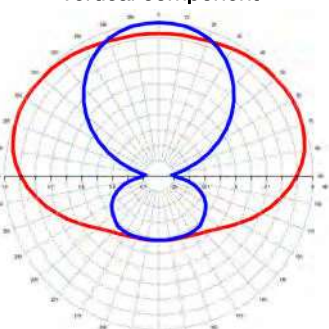
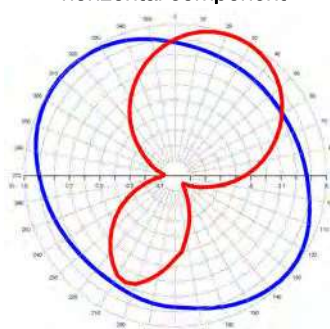
available semi-band model

ACF02022xxHi - Freq. 94 ÷ 108 MHz

ACF02022xxLo - Freq. 87,5 ÷ 104 MHz

horizontal component

vertical component



H-Plane and E-Plane

H-Plane and E-Plane

MECHANICAL DATA**MATERIALS:** bracket and bolts in hot galvanized steel, teflon isolators, silicon O-Rings, aluminum internal line, dipoles and body in aluminum (ACF020221x models) or stainless steel (ACF020223x models)**MOUNTING:** directly on supporting structure**MOUNTING BRACKETS:** included for Ø 60÷114mm, pipe**ICING PROTECTION:** teflon radome**TREATMENTS:** hot galvanized bracket, dipoles and body military grade treated MIL-C-5541, silver-plated internal lines**PRESSURIZATION:** 5,0 psi**ANTENNA DIMENSIONS:** 1155x1155x1580 mm**WEIGHT:**

ACF020221x - 14 Kg

ACF020223x - 21 Kg

WIND SURFACE: 0,09 m² front - 0,20 m² side**WIND LOAD (at 160Km/h and 30° C air temperature):**

7,39 Kg front - 21,82 Kg side

SURVIVAL WIND: 220Km/h**PACKING DIMENSIONS:**

ACF020221x - box 1760x370x140 mm - 17Kg gross

ACF020223x - box 1760x1000x140 mm - 31Kg gross

SPECIAL FEATURES: additional reflector (Code XREFACF)**ARRAY DATA**

BAY	PANEL PER BAY	SYSTEM GAIN (dBd) ¹	GAIN TIMES ²	WEIGHT (Kg) ^{2,4}	SYSTEM HEIGHT (mt)	WIND LOAD (Kg) ³
2	1	3,45	2,21	39	3,9	43,6
4	1	6,45	4,42	73	9,3	87,3
6	1	8,25	6,68	108	14,2	130,9
8	1	9,45	8,81	164	19,4	174,6
12	1	11,25	13,34	267	30	261,8

1 - Gain referred at mid band -1° 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 ACF020221x models