

Model 58210-082D, 85° Panel

Dual Band - Vertical Polarized - Integrated Diplexer

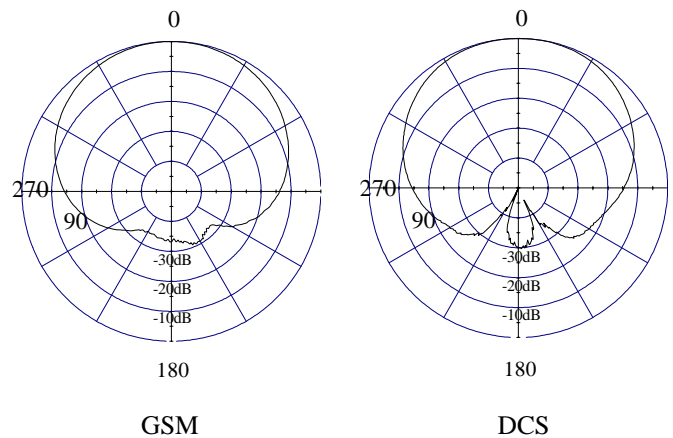
ELECTRICAL CHARACTERISTICS

	<u>GSM</u>	<u>DCS</u>
Frequency Range	880 - 960 MHz	1710 - 1880 MHz
Beamwidth: H-plane	84° ± 3° (at -3 dB)	87° ± 5° (at -3 dB)
E-plane	7.2° ± 0.4° (at -3 dB)	7.5° ± 0.5° (at -3 dB)
Max /Min Gain	16.3/15.7 dBi (14.2/13.6 dBd)	17.5/16.2 dBi (15.4/14.1 dBd)
Electrical Tilt	-2° (available 0°, -6°)	-2° (available 0°, -6°)
First Upper Side Lobe	≤ -17 dB	≤ -20 dB
Front-to-Back Ratio	≤ -24 dB	≤ -27 dB
Intermodulation IM3 (2x43 dBm carrier)	< -150 dBc	< -150 dBc

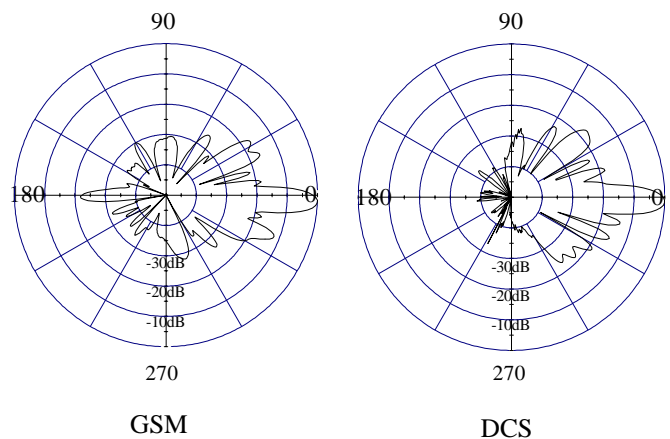
GENERAL CHARACTERISTICS

Impedance	50 Ω
VSWR	≤ 1.4:1
Polarization	Vertical
Rated Power	GSM: 200 W DCS: 200 W

The HARMONY™ antennas, similar in height to 900 MHz antennas, combine on a single ground plane two antennas (1 for 900MHz and 1 for 1800MHz).



HORIZONTAL PLANE



VERTICAL PLANE

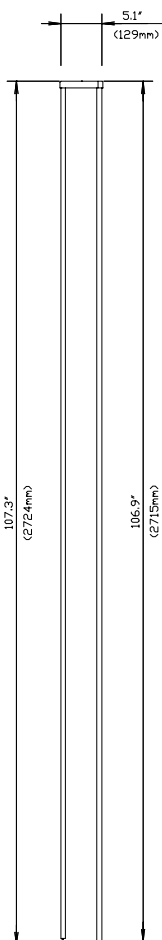
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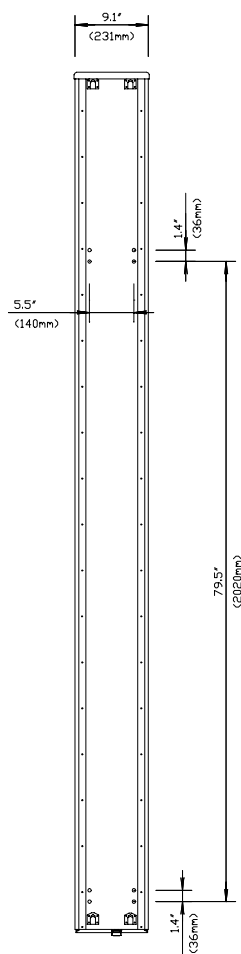
MECHANICAL CHARACTERISTICS

Height x Width x Depth	106.8" x 9.1" x 5.1" (2715 x 231 x 129 mm)
Weight	30.9 lbs (14 kg)
Wind Survival Rating	125 mph (200 km/h)
Wind Load (at 100 mph)	920 N (frontal F1) 591 N (lateral F2)
Flat Plate Equivalent Area	6.75 ft ² (0.63 m ²)
Connector Types (Female)	7/16 DIN
Materials:Antenna/Radome	Aluminum / ABS

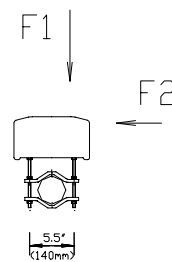
SIDE VIEW



REAR VIEW



TOP VIEW



MOUNTING HARDWARE

Mounting Brackets	Fix 905 (2" - 4.7" OD pipe) (50 - 120 mm OD pipe)
Mechanical Tilt Brackets (optional)	Model TB-39B