Product Data Sheet

☎ 1-855-276-5772 or 780-702-7577
info@kpperformance.com
9850 W 190th St, Suite F, Mokena, IL 60448

KP-5PDC5C-1

1-Foot Parabolic Antenna 4900MHz–6400MHz with Mimosa® C5c™ Radio Adapter

- Simplified installation with patent pending quick-connect waveguide technology and weatherproofed, cable-less, push-in adapter designed specifically for the Mimosa® C5c™ radio.
- Optimized front to back and side lobes suppression eliminates interference
- Heavy-duty bracket with fine elevation and azimuth adjustment

Electrical Specification

Frequency Band	MHz	4900-5400	5400-5900	5900-6400
Gain	dBi	22.5±0.75	24.0±0.5	24.5±0.8
Polarization			H/V or ±45 Slant	
Horizontal HPBW	Degree	10.0±0.4	8.8±0.2	8.0±0.2
Vertical HPBW	Degree	10.1±0.3	8.7±0.2	7.9±0.2
Front-to-Back Ratio @ 180°±30°	dB	35	35	35
Cross-polarization Ratio over HPBW	dB	25	25	25
VSWR		1.5 typ | 1.7 max	1.3 typ | 1.5 max	1.3 typ | 1.8 max
Return Loss	dB	14 typ | 12 max	18 typ | 14 max	18 typ | 11 max
Port-to-Port Isolation	dB	30	30	23
Max. Input Power per Port	W		50	
Impedance	Ohms		50	

Mechanical Specifications

Diameter, nominal	15″
Antenna Input	Mimosa® C5c Radio™ Adapter
Dish Main Reflector Color	Grey
Radio Adapter Color	Grey
Wind Load, Axial	650 N | 146 lbf
Wind Velocity, Operational	145 km/h | 90 mph
Wind Velocity, Survival	201 km/h | 125 mph
Temperature Range	-40° to +60° C | -40° to +140° F

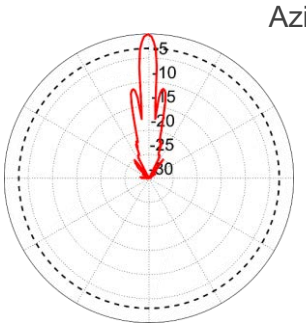
Bracket Specifications

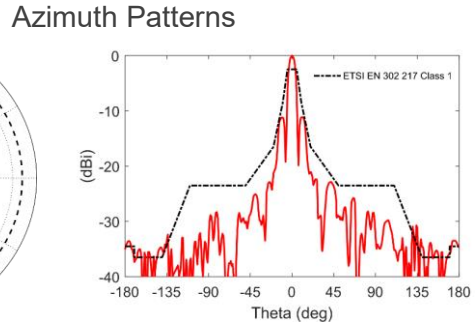
Fine Azimuth Adjustment	±20°
Fine Elevation Adjustment	±22°
Mounting Type	Pipe Mount
Net Weight	6kg | 13.2 lb
Mounting pole diameter	19 mm – 114 mm | 0.75 in – 4.5 in
Antenna-to-Pipe Distance	172 mm | 6.8 in

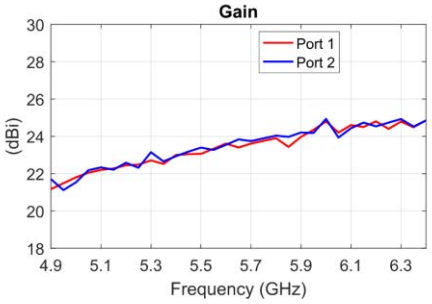
Product Data Sheet

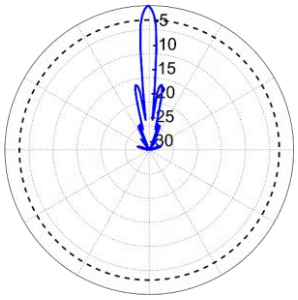
☎ 1-855-276-5772 or 780-702-7577
💻 info@kpperformance.com
✉ 9850 W 190th St, Suite F, Mokena, IL 60448

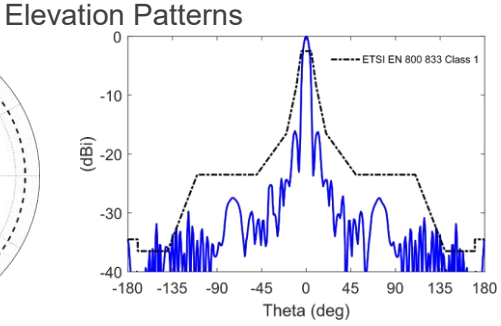
Graphical Data

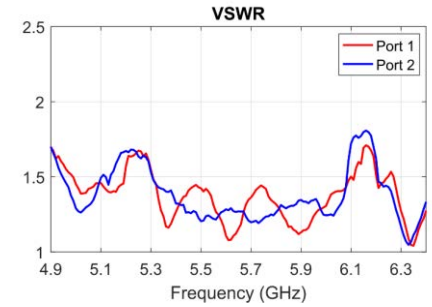




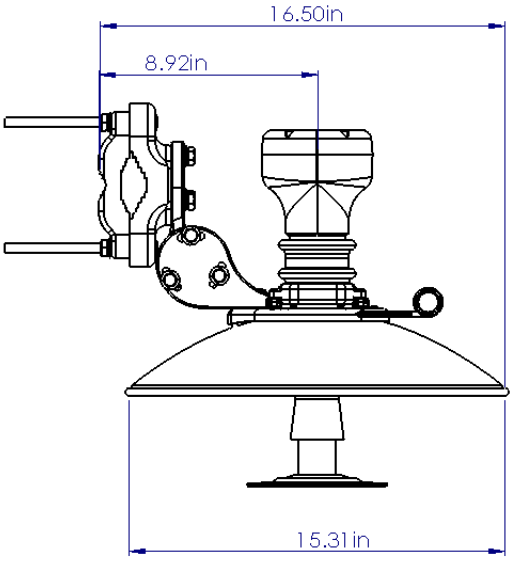


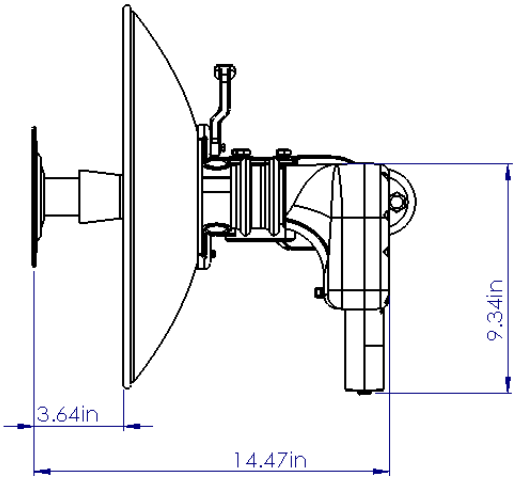






Mechanical Drawings





*ALL UNITS IN INCHES

Appendix

HPBW: Average and variation of the antenna's 3dB beamwidth (half power beamwidth) in its horizontal (Azimuth) or vertical (Elevation) pattern.
Gain: Antenna's average gain and variation in each frequency band.
Front to Back Ratio @ 180°±30°: Difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.
Cross-polarization Ratio over HPBW (dB): Maximum difference between the co-polarization and cross-polarization gain across the sector's HPBW.
Wind load, Axial: Force applied to the face of the antenna due to wind at the specified operational wind speed.