

HGSN28V1790

90 DEGREE, 17 DBI SECTOR ANTENNA, VERTICAL-POLARIZED, 27.3-29.5GHZ



SPECIFICATIONS

General

Antenna Type	Sector Antenna
Size, nominal	1 ft 0.3 m
Polarization	Vertical

Standard RF Connector Type	WR28
Standard RF Connector Suffix	Not Applicable: No model number suffix required

Electrical

Operating Frequency Band	27.3 - 29.5 GHz
Half Power Beamwidth, Horizontal	90 degrees
Half Power Beamwidth, Vertical	6 degrees
Cross-Polarization Discrimination	30 dB
Front to Back Ratio (F/B)	40 dB

Gain, Low Frequency	17 dBi
Gain, Mid Frequency	17.3 dBi
Gain, High Frequency	17.6 dBi
VSWR	1.5:1
Return Loss	-14 dB

Mechanical

Fine Azimuth Adjustment	+/- 10 degrees
Fine Elevation Adjustment	+/- 30 degrees
Mounting Pipe Diameter, Min	2 inch 5.08 cm
Mounting Pipe Diameter, Max	4.5 inch 11.4 cm
Net Weight	17 lbs 7.7 kg
Wind Velocity Operational	90 mph 145 km/h
Wind Velocity Survival Rating	125 mph 201 km/h

Mechanical Configuration	SEC5
Axial Force (FA)	36 lbs 160 N
Side Force (FS)	40 lbs 178 N
Twisting Moment (MT)	35 ft-lbs 47 Nm
Operating Temperature Range	-40 to +60 C
Max Pressure, PSIG, (if waveguide interface)	na

Regulatory Compliance

FCC	undeclared
Industry Canada Compliance	undeclared

ETSI	302 326-3 SS4
RoHS-compliant	Yes

Shipping Information

Package Type	Cardboard
Gross Weight	23 lbs 10.4 kg

Dimensions, L x W x H	24 x 13 x 16in 61 x 33 x 40.6 cm
Shipping Volume	2.9 cu ft 0.08 cu m

*Additional OEM interfaces and adapters may be available. Contact RadioWaves for a complete and current list of available adapters.