

# Product Data Sheet

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## KP-TWDP65S-12 470 MHz-698 MHz, 65 Degree Sector Antenna, 12.0 dBi, 2-Port, H/V Pol

- Stable 12 dBi gain
- Side lobe suppression and high front-to-back ratio for frequency-reuse two
- Heavy-duty sector pipe mount brackets

### Electrical Specification

Frequency Band	MHz	470-698
Gain	dBi	12±0.5
Polarization		Horizontal/Vertical
Horizontal HPBW	Degree	65±5
Horizontal Squint	Degree	±2
Vertical HPBW	Degree	25±5
Electrical Downtilt	Degree	0
Front-to-Back Ratio @ 180°±30°	dB	25 typ   20 min
Cross-polarization Ratio	dB	30
VSWR		1.3 typ   1.5 max
Return Loss	dB	17 typ   14 max
Port-to-Port Isolation	dB	30
Max. Input Power per Port	W	50
Impedance	Ohms	50

### Mechanical Specifications

RF Connector Type	N-Type Female
RF Connector Quantity	2
RF Connector Position	Bottom of radome
Electrical Grounding	RF connector grounded to reflector and mounting bracket
Radome Material	UV resistant PVC
Ingress Protection	IP55 rain and dust resistant
Max. Wind Speed	160km/h   100mph
Temperature Range	-40° to +60° C   -40° to +140° F

### Bracket Specifications

Material Type	Powder Coated Galvanized Steel
Mechanical Tilt (Degree)	±15
Mounting Type	Pipe Mount
Mounting pole diameter	19 mm – 114 mm   0.75 in – 4.5 in

### Antenna Dimensions

Length	1240 mm   48.8 in
Width	406 mm   16 in
Height	130 mm   5.1 in
Net Weight, with brackets	5.5 kg   12 lb