

Antenna Specification Sheet

RF Performance

Antenna Part Number		S43	S62
Antenna Dimensions (w x h)		54cm x 40cm	76cm x 57cm
Operating Frequency	Rx	10.70 - 12.75 GHz	10.70 - 12.75 GHz
Polarisation		Linear	Linear
Gain (min) @ 10.7 GHz		32.0 dBi	34.5 dBi
@ 11.7 GHz		32.5 dBi	35.0 dBi
@ 12.75 GHz		33.0 dBi	35.5 dBi
3dB Beamwidth (Max) @ 10.75 GHz		3.3°	2.4°
@ 11.7 GHz		3.0°	2.2°
Sidelobe Envelope (Tx, Co-pol dBi)		29 - 25 Log θ for $100x/d < \theta < 20^\circ$	
Antenna Cross-Polarisation		> 26 Db on axis > 21 Db elsewhere	> 26 Db on axis > 21 Db elsewhere

Mechanical Performance

Reflector Material		Steel	Steel
Antenna Optics		Offset Prime Focus	Offset Prime Focus
Mount Type		Elevation over Azimuth	Elevation over Azimuth
Elevation Adjustment Range		0° to 50°	0° to 50°
Azimuth Adjustment Range		360°	360°
Wind Loading	Operational Survival	100km/H 200km/H	100km/H 200km/H
Temperature		-50 to 80°C	-50 to 80°C
Humidity		0 to 100% Condensation	0 to 100% Condensation
Atmosphere		Salt, Pollutants and Contaminants encountered In coastal and Industrial areas	
Solar Radiation		1120 W/m ²	1120 W/m ²
Shock & Vibration		As encountered during shipping and handling	
Wall mount supplied		Swinging arm wall mount	Basic L tube type
Mast Pipe Interface		30 - 62mm	31 - 38mm



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