

# MT024S18DS

2.3-2.4 GHz 18 dBi 45° Double Dual Slant Sector Antenna

## Electrical

Regulatory Compliance	RoHS, CE 0682
Frequency	2.3 – 2.4 GHz
Gain	18.0 dBi min
VSWR	1.5:1 typ, 2:1 max
15 dBi Azimuth Beam Width	45° typ
-3 dB Elevation Beam Width	7° typ
Polarization	Double Dual Slant
Cross Polar Discrimination	-13 dB max
Elevation Side Lobes Level	-13 dB typ
Azimuth Side Lobes Level	15 dBi min @ ±22.5° -12 dB max @ ±45° -25 dB max @ ±60° -25 dB @ ±90°
F/B Ratio	-25 dB max
Port to Port Isolation	25 dB min - Same antenna 30 dB min - Between antennas
Input Impedance	50 Ω
Input Power	50 W CW 200 W max @ 5uSec max
Lightning Protection	DC Grounded

## Mechanical

Dimensions	944 x 385 x 91 mm max
Weight	5 kg max
Connector	4 x N- Type Female
Base Plate	Aluminum with chemical conversion coating

## Environmental

Test	Standard	Duration	Temperature	Notes
Low Temperature	IEC 68-2-1	72 h	-55 °C	
High Temperature	IEC 68-2-2	72 h	+71 °C	
Temp. Cycling	IEC 68-2-14	1 h	-45 °C +70 °C	3 Cycles
Vibration	IEC 60721-3-4	30 min/axis		Random 4M5
Shock Mechanical	IEC 60721-3-4			4M5
Humidity	ETSI EN300-2-4 T4.1E	144 h		95%
Water Tightness	IEC 529			IP64
Solar Radiation	ASTM G53	1000 h		
Salt Spray	IEC 68-2-11 Ka	500 h		
Ice And Snow				25 mm Radial
Wind Speed	Survival			220 Km/h
	Operation			160 Km/h
Wind Load	Front Thrust			124.5 kg
Survival	Side Thrust			27.5 kg

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