

MT-30117/N

3.3 – 3.8 GHz 16.5 dBi Directional Antenna



Electrical

Regulatory Compliance	ETSI EN 302 085 v1.1.2 (2001-02) TS2 Range 1 RoHS , CE 0682			
Frequency	3.3 – 3.8 GHz			
Gain	3.3 - 3.5 GHz	15.5 dBi min	16 dBi typ	
	3.5 - 3.7 GHz	16.5 dBi min	17 dBi typ	
	3.7 - 3.8 GHz	15.5 dBi min	16 dBi typ	
VSWR	1.5 : 1 typ, 1.7 : 1 max			
3 dB Beamwidth	Azimuth	23° typ		
	Elevation	23° typ		
Polarization	Linear Vertical or Horizontal			
Sidelobes Level	Azimuth	ETSI EN 302 085 v1.1.2 TS1-TS2	3.3 – 3.6 GHz	-15dB max
		ETSI EN 302 085 v1.1.2 TS1-TS2	3.6 – 3.8 GHz	-12dB max
	Elevation	ETSI EN 302 085 v1.1.2 TS1-TS2	-12dB max	
Cross Polarization	Azimuth	ETSI EN 302 085 v1.1.2 TS1-TS2	3.3-3.7 GHz	
			3.7-3.8 GHz	-13 dB max
	Elevation	ETSI EN 302 085 v1.1.2 TS1-TS2	3.7-3.8 GHz	-13 dB max
F/B Ratio	ETSI EN 302 085 v1.1.2 TS1-TS2			-27 dB max
Input Impedance	50 ohm			
Input Power	6 W max			
Lightning Protection	DC Grounded			

Mechanical

Dimensions	190 x 190 x 30.5 mm max
Weight	0.4 kg max
Connector	N-TYPE Female
Radome	Plastic
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		
Flammability	IEC 68-2-11 Ka	500 h		
Salt Spray				25 mm Radial
Wind Speed	Survival			220 Km/h
	Operation			160 Km/h
Wind Load (Survival):	Front Thrust			10.5 kg
	Side Thrust			1.6 kg

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