

MT-40421/NVH

3.3 – 3.8 GHz 17 dBi Directional Antenna

Electrical					
Regulatory Compliance		ETSI EN 302 085 V1.2.2 (2003-08) TS1-TS3 RANGE 1			
Frequency		3.3 – 3.8 GHz			
Gain	3.3 – 3.5 GHz	16 dBi min, 16.5 dBi typ			
	3.5 – 3.7 GHz	16.5 dBi min, 17 dBi typ			
	3.7 – 3.8 GHz	16 dBi min, 16.5 dBi typ			
VSWR		2:1 max, 1.5:1 typ			
Beam Width	Azimuth	19° typ			
	Elevation	18° typ			
Polarization		Dual Vertical & Horizontal			
Azimuth Side Lobes Level	Port V	3.3 – 3.4 GHz	TS1-TS2		
		3.4 – 3.8 GHz	TS1-TS3		
Elevation Side Lobes Level	Port H	3.3 – 3.4 GHz	TS1-TS2		
		3.4 – 3.7 GHz	TS1-TS3		
		3.7 – 3.8 GHz	TS1-TS2 -11 dB max		
Elevation Side Lobes Level	Port V	3.3 – 3.4 GHz	TS1-TS2		
		3.4 – 3.7 GHz	TS1-TS3		
		3.7 – 3.8 GHz	TS1-TS3 0° to ±110° TS1-TS2 ±110° to ±180°		
Cross Polarization	Port H	3.3 – 3.8 GHz	TS1-TS3		
		Azimuth	3.3 – 3.4 GHz	TS1-TS2	
			3.4 – 3.7 GHz	TS1-TS3	
3.7 – 3.8 GHz	TS1-TS2 -17 dB max				
Cross Polarization	Port V	Elevation		TS1-TS3	
		Port H		TS1-TS3	
		Azimuth		TS1-TS3 -30 dB max	
F/B Ratio	Port V	Elevation		TS1-TS3	
		3.3 – 3.7 GHz		TS1-TS2 -27 dB max	
		3.7 – 3.8 GHz		TS1-TS3 -30 dB max	
F/B Ratio	Port H	Elevation		TS1-TS3 -30 dB max	
		3.3 – 3.7 GHz		TS1-TS2 -27 dB max	
		3.7 – 3.8 GHz		TS1-TS3 -30 dB max	
Input Impedance		50 ohm			
Input Power		1 W max			
Port To Port		-25 dB min			

Mechanical	
Dimensions	305 x 305 x 25 mm max
Weight	1.2 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	UL 94			Class HB
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 (Survival):	Front Thrust			26.8 kg
	Side Thrust			2.2 kg

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