

Dual Band 17.7 – 19.7 GHz, 71 – 76/81 – 86 GHz

Electrical				
Regulatory Compliance		ETSI EN 302 217-4-2 V2.1.1, FCC 47 CFR 101.115, RoHS, CE		
Frequency Range		17.7 – 19.7 GHz 71 – 76 GHz, 81- 86 GHz		
Gain	Low Band	Mid Band	High Band	
17.7 – 19.7 GHz	38 dBi	38 dBi	39 dBi	
71 – 76, 81 – 86 GHz	50 dBi		51 dBi	
VSWR				
17.7 – 19.7 GHz	2 :1			
71 – 76, 81 – 86 GHz	1.5:1			
3 dB Beam width				
17.7 – 19.7 GHz	1.8°			
71 – 76, 81 – 86 GHz	0.5°			
Polarization				
17.7 – 19.7 GHz	Vertical or Horizontal			
71 – 76, 81 – 86 GHz	Vertical or Horizontal			
Side Lobe Suppression	ETSI Class 3, FCC			
Cross Polarization	ETSI Class 3, FCC			
F/B Ratio	ETSI Class 3, FCC 67 dB			
XPD				
17.7 – 19.7 GHz	27 dB			
71 – 76, 81- 86 GHz	25 dB			
Isolation				
WR42 to WR12	80 dB			
WR12 to WR42	25 dB			
Input Power	10 W max			
Mechanical				
Diameter	Ø 655 mm			
Depth	300 mm			
Weight	8 Kg (max)			
Interface				
17.7 – 19.7 GHz	WR42			
71 – 76/81- 86 GHz	WR12			
Radome	Plastic			
Environmental				
Test	Standard	Duration	Temperature	Notes
Low Temperature	IEC 68-2-1	72h	-55°C	
High Temperature	IEC 68-2-2	72 h	+71°C	
Temp. Cycling	IEC 68-2-14	1h	-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	144h		95%
Water Tightness	IEC 529			IP67 (for feed and radio interfaces)
Solar Radiation	ASTM G53	1000 h		
Salt Spray	IEC 68-2-11 Ka	500h		
Ice And Snow				25mm Radial
Wind Speed:	ETSI EN 302 085 V1.1.2			
Survival	Heavy Duty			252 Km/h
Operation	Heavy Duty			164 Km/h