

Dual Band 14.4 – 15.35 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		14.4 – 15.35 GHz 71 – 76, 81 – 86 GHz		
Gain	Low Band	Mid Band	High Band	
14.4 – 15.35 GHz	36 dBi	36.5 dBi	37 dBi	
71 – 76/81- 86 GHz	50 dBi		51 dBi	
VSWR				
14.4 – 15.35 GHz	2:1			
71 – 76/81- 86 GHz	1.5 :1			
3 dB Beam width				
14.4 – 15.35 GHz	2.5°			
71 – 76/81- 86 GHz	0.5°			
Polarization				
14.4 – 15.35 GHz	Dual Pol. (V+H)			
71 – 76/81- 86 GHz	Vertical or Horizontal			
Side Lobe Suppression				
14.4 – 15.35 GHz	ETSI Class 3			
71 – 76/81- 86 GHz	ETSI Class 3, FCC			
Cross Polarization				
14.4 – 15.35 GHz	ETSI Class 3			
71 – 76/81- 86 GHz	ETSI Class 3, FCC			
F/B Ratio				
14.4 – 15.35 GHz	ETSI Class 3	64 dB		
71 – 76/81- 86 GHz	ETSI Class 3, FCC	67 dB		
XPD				
14.4 – 15.35 GHz	ETSI Category 2	27 dB		
71 – 76/81- 86 GHz		30 dB		
Isolation				
WR62 to WR12	80 dB			
WR12 to WR62	25 dB			
Input Power	10 W (max)			
Mechanical				
Diameter	Ø 655 mm			
Depth	300 mm			
Weight	6.2 Kg max			
Interface				
14.4 – 15.35 GHz	Circular			
71 – 76/81- 86 GHz	WR12			
Radome	Polypropylene			
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