

High-gain External Antennas



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Figure - External High-gain Dual-polarization Parabolic Antenna

Two external antenna models are available in our portfolio: one for the frequency range 4.9 - 6.1GHz and one for 5.7 - 6.5GHz.

Electrical

Parameter	Description			
Frequency Range	4.9-5.15 GHz	5.15-5.9 GHz	5.9-6.1 GHz	5.7-6.5 GHz
Gain	32 dBi	34 dBi	34 dBi	35 dBi
VSWR, max	2 : 1	1.7 : 1	2 : 1	1.7 : 1
3 dB Beam-Width, H-Plane	3°	3°	3°	2.5°
3 dB Beam-Width, E-Plane	3°	3°	3°	2.5°
Polarization	Dual Polarized, Vertical & Horizontal			
Cross Polarization, min	-20 dB			-25 dB
Front to Back Ratio, min	-40 dB			
Input power, max	100 Watt			
Input Impedance	50 Ohm			
Port to Port Isolation, min	-36 dB @ 4.9-5.6 GHz -20 dB @ 5.6-6.1 GHz			-35 dB
Side Lobes, typ.	-18 dB			-17 dB

Table - External High-gain Antennas Electrical Specification

Environmental

Parameter	Description
Operating Temperature Range	-40°C to +65°C
Vibration	According to IEC 60721-3-4

Wind Load	• 200 Km/h (survival)
Flammability	• UL94
Dust and Water Protection	• IP-65
Humidity	• ETS 300 019-1-4, EN 302 085
Salt Fog	• According to IEC 68-2-11
Ice and Snow	• 25 mm radial (survival)

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