
ALC3G2F

UMTS DUAL POLAR ANTENNA

ANTENNA FEATURES:

- Dual Polarised. +/- 45 degree slant
- Indoor and outdoor use
- Durable, rugged sealed box
- Weather resilient. IP rating of 67
- Easy to install
- Paintable and blends in with the surroundings
- 30dB isolation between ports
- Input VSWR <1.4:1 Maximum
- Input impedance 50 Ohms



ANTENNA DESCRIPTION:

The ALC3G2F is a dual polarised antenna for indoor and outdoor use. The antenna is fitted with cables of *N-type* (female) connectors. This is optional and can be changed to customer requirements. This lightweight antenna can be easily mounted and blends in discretely with its surroundings. ALC3G2F has a nominal gain of 8dBi within the band with 25dB isolation between the ports.

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ELECTRICAL SPECIFICATION:

Frequency	1900 - 2180 MHz
Gain	8.0 dBi
Polarization	Dual $\pm 45^\circ$ slant, linear
Input Impedance	50 Ohms
Input VSWR	< 1.5:1 Maximum
Isolation (Between Polarisation)	> 30 dB in band 1900 - 1215MHz > 25 dB elsewhere in UMTS Band
Intermodulation Products	< -150 dBc for 2 x 20W carriers
Input Connectors:-	N-Type (f) on 400mm cable tail.

Horizontal Radiation Pattern:

Azimuth beamwidth (3dB)	65° ($\pm 5^\circ$)
Pol. Azimuth Tracking	< ± 1.5 dB over a 120° sector
Front to back ratio	< -18 dB at $\pm 180^\circ$

Vertical Radiation Pattern:

Elevation Beamwidth	50° ($\pm 2.0^\circ$)
Electrical Downtilt	0°
Elevation Sidelobe Suppression	None
Electrical Null Fill	None