David Hanman
Engineering Services

UMTS 33°/21 dBi DUAL-POLARISED ANTENNA

Dual Polarised Antenna
Type: 2233

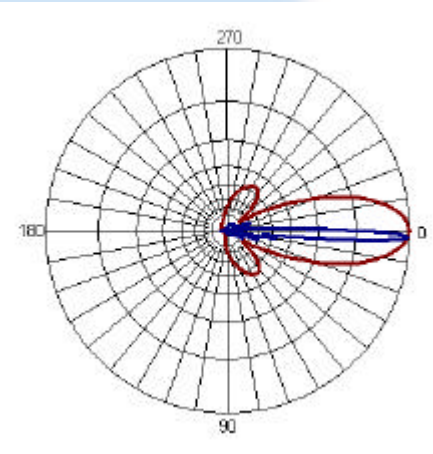
- **SINGLE-BAND 3G APPLICATIONS**
- **LOW-PROFILE RADOME**
- **33 DEGREE BEAMWIDTH**

The '3G Series' of panel antennas have been designed to easily facilitate the installation of Third Generation Cellular infrastructure into new or existing networks. A number of models provide variations in both gain and fixed electrical downtilt to exactly suit the required cell coverage. Slimline radomes reduce visual impact & provide an easily installed, robust enclosure. An extremely low component count and one-piece PCB result in consistently high product quality and reliability, having an excellent intermodulation performance. The mounting brackets enable Tilt or Pan + Tilt options. Two connectors are provided on the base of the unit.

TECHNICAL SPECIFICATION

MODEL 2233

Frequency	:	1900 - 2170 MHz
Horizontal Beamwidth	:	33°
Vertical Beamwidth	:	>5°
Gain	:	21 dBi
VSWR	:	1.4:1 max
Fixed electrical downtilt options	:	2, 4, 6, 8 or 10°
Upper sidelobe suppression	:	<18 dB to 20° above beam peak
Below horizon null-fill	:	1st null <18 dB below beam peak
Isolation	:	30dB typical
Front-to-back ratio	:	>30 dB @ ± 180° azimuth
Power handling	:	200 Watts @ 40°C
Connectors	:	2 x 7/16" DIN (socket at bottom)
Dimensions	:	2000 mm x 275 mm x 95 mm
Operational wind speed	:	45 m/s (160 Km/h)
Survival wind speed	:	56 m/s (200 Km/h)
Max wind loading (Front)	:	481 N @ 45m/s
Weight (inc. bracket)	:	15 Kg
Temperature Range	:	- 40°C to + 70°C
Bracket Options	:	Tilt 8° down to 2° up Pan +/- 45°



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