

**Type 7469 Dual Band GSM 900 / 1800
Shrouded Directional Antenna
Linear Coverage
Fire Retardant**



This type is a yagi antenna offering coverage of both GSM cellular bands.

Apart from use in linear coverage situations such as roads / railways, its fire retardant properties (BS476) make it particularly useful in tunnels.

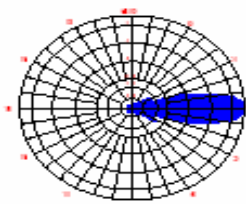
The design uses two different element chains on a common boom and incorporates an internal diplexer to give a single RF termination.



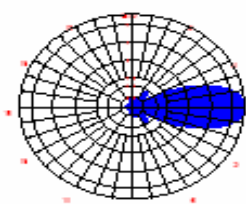
Electrical Characteristics		7469 000	
Frequency	872 – 960 MHz	1710-1900	
Gain (max)	14.2 dBi	16.5dBi	
Power	50W	50W	
VSWR	< 1.3:1 typical		
Polarisation	Linear, GSM 900 orthogonal to GSM1800		
Horiz. Beamwidth GSM900	34 - 44° , -3 dB point		
Horiz. Beamwidth GSM 1800	28°		
Front to Back Ratio	GSM 900 > 24 dB GSM 1800 > 30dB		
Elevation Beamwidth	900 31-41° @ -3 dB point 1800 22-28° @ -3dB point		
Impedance	50Ω		
Termination	N female on rear of mounting tube		

All antennas are DC Grounded

Typical Radiation Pattern (E Plane)



Typical Radiation Pattern (H Plane)



Mechanical Characteristics	
Material	Shroud – 1150mm long, glass reinforced plastic tube 185mm diameter Colour RAL 7035 Light grey. Fire retardant material Class 1/0 to BS476 Pt.7 with Polycor Gel
Dimensions	Length 1333mm, Ø 185mm
Weight	7 kg excluding mounting hardware.
Wind Loading	260 N maximum @ 160 km/hour (Operating wind speed 260km/hr)

Mounting Accessories:



Recommended Clamp is 99284, Will fit 50mm, 75mm or 100mm pipes

ASCII format radiation patterns are available upon request.

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