

**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.

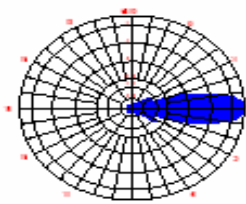
Apart from use in linear coverage situations such as roads / railways, its fire retardant properties (BS476) make it particularly useful in tunnels.

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

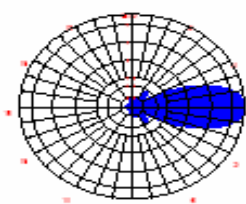


Electrical Characteristics		7469 000	
Frequency	872 – 960 MHz	1710-1900	
Gain (max)	14.2 dBi	16.5dBi	
Power	50W	50W	
VSWR	< 1.3:1 typical		
Polarisation	Linear, GSM 900 orthogonal to GSM1800		
Horiz. Beamwidth GSM900	34 - 44° , -3 dB point		
Horiz. Beamwidth GSM 1800	28°		
Front to Back Ratio	GSM 900 > 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		

Typical Radiation Pattern (E Plane)



Typical Radiation Pattern (H Plane)



All antennas are DC Grounded

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.

MAT JAYBEAM reserve the right to modify or amend any antenna or specification without prior notice