



Features

- **Low Cost**
- **High Performance**
- **Customised designs available**
- **Greater Spectrum Efficiency**
- **Manufactured from Brass or Aluminium**
- **E or H Plane Available**
- **Quotations on Request**



Model 19244-7100

The use of the sector antenna has become a very effective method of achieving the broadcast type of coverage required of the base transmission system used in LMDS/MVDS systems.

Flann Microwave has developed a series of compact, high performance, low-cost sectoral hub antennas for LMDS/MVDS applications. The 64° azimuth beam angle is designed to provide the best circular coverage pattern when illuminated from the circle edge taking into account path losses and attenuation due to rain.

Sectoral Antenna V Omnidirectional Alternatives

More revenue potential per base station

Omnidirectional antennas are always located at the centre of the coverage area whereas sectorial antenna base stations can be located anywhere on the cell edge and can therefore illuminate up to 4 cells from one base station allowing a 4:1 ratio of revenue generating cells to cost generating transmitter sites.

Customised Base station Antennas

The requirement to serve a number of small areas from a single base station has resulted in the development of the multiple beam technique, for which the sectoral antenna is ideal. Power splitting is through the use of branch guide couplers whilst polarization and direction orientation can be achieved using compact waveguide bends and twists.

Customised Footprints

A multiplicity of elements and arrays can be incorporated in a single enclosure to provide a defined radiation pattern. Edge fed circular and centre fed circular are possible configurations.

Customised Antenna, Filter, and Splitter Assemblies

Assemblies of antenna elements fitted with purpose designed filters fed two- or three-way power divider networks can be designed and manufactured to suit the special needs of individual applications. The arrays and the elements within each array can be positioned either prior to, or after installation to enable fine tuning.

Simple and compact design

The design and manufacture of omnidirectional antennas at the millimetre wave frequencies is both complex and costly whereas the sector antenna and in particular the 64° sector antenna is a simple device offering **much lower manufacturing costs**.

FLANN MICROWAVE LTD.

Dunmere Road
Bodmin
Cornwall
PL31 2QL

GET IN TOUCH:

Tel: +44 (0)1208 77777
sales@flann.com
www.flann.com



FLANN MICROWAVE

Sectoral Horn

Series 244 / 245

Customised Antenna Enclosures

In order to be sure of a design which does not in any way compromise system performance, it is important to give careful considerations to all aspects of the antenna radome assembly and its integration with the transmitter. Flann can provide efficient, practical, and individually customised solutions to your transmitter construction which minimize installation, servicing and system running costs while assuring you of the systems durability and high performance in all conditions

Custom Design

Custom built instruments can be supplied; please contact the sales team for more information sales@flann.com

FLANN MICROWAVE LTD.

Dunmere Road
Bodmin
Cornwall
PL31 2QL

GET IN TOUCH:

Tel: +44 (0)1208 77777
sales@flann.com
www.flann.com