

ELLIPTICAL WAVEGUIDE



- **Low Loss**
- **Low Signal Distortion**
- **Guaranteed VSWR Performance**
- **Solid Copper Corrugated Wall**

PRODUCT APPLICATION:

Elliptical waveguide is the optimum choice for most microwave antenna feeder systems. This waveguide is precision formed from corrugated high-conductivity copper and has an elliptical cross section. The corrugated wall gives the waveguide excellent crush strength, light weight and good flexibility for ease of handling.

A full range of waveguide sizes is available for application from 1.7 to 26.5 GHz

Elliptical Waveguide 2.5 2.7 GHz

Electrical Specifications

Operating Frequency:	2500 ~ 2700 MHz
eTE11 Mode Cutoff:	1.570 GHz
Group Delay:	128 ns/100 ft at 2.60 GHz

Dimensions

Cable Volume:	5621.0 L/km 60.5 ft ³ /kft
Cable Weight:	2.76 kg/m 1.85 lb/ft

Mechanical Specifications

Maximum twist:	0.75°/m 0.03°/ft
Minimum Bend Radius (E Plane):	660.00 mm 26.00 in
Minimum Bend Radius (H Plane):	800.00 mm 71.00 in

Return Loss

Frequency Band	VSWR	Return Loss (dB)
2.5–2.7 GHz	1.15	23.10

Attenuation

Frequency (GHz)	Attenuation (dB/100 ft)	Attenuation (dB/100 m)	Average Power (kW)	Group Velocity %
2.5	0.44	1.445	33.443	77.8
2.6	0.431	1.413	34.187	79.7
2.7	0.423	1.388	34.818	81.4

¹ Specifications subject to change without prior notice.