

# WGF-2550

WAVE GUIDE FILTER

## Description

The WGF-2550 accepts up to six fiber optic cables and is sized to fit holes previously made for DB-25 connectors. It provides a means of bringing fiber optic cables into a shielded enclosure while maintaining the enclosure's radio frequency isolation integrity.



## Wave Guide Filter

**Accepts up to 6 pre-terminated fiber optic cables**

### Features:

- The waveguide bore diameter to length ratio have been optimized to assure high attenuation.
- Fits holes previously made for DB-25 connectors.

## Specifications

<b>Material</b>	Aluminum
<b>Effective Length</b>	1.625"
<b>Waveguide Bore Diameter</b>	0.221"
<b>Cut-Off Frequency</b>	31.4 GHz

## Theoretical Attenuation

GHz	dB
30	62.58
25	134.91
18	185.15
15	199.03
10	215.32
5	224.54
0.1	227.54

## Installation Instructions

1. Open the Wave Guide package and verify the contents:
  - 1 - WGF-2550 body
  - 1 - RFI gasket
  - 2 - pan head screw, 4-40 x 3/8"
  - 2 - lock washers, #4
2. Clean and de-burr area around mounting hole to insure suitable electrical contact and tight seal with waveguide mounting surface.
3. Slide the RFI gasket over the WGF-2550 body.
4. Slide the WGF-2550 through the mounting hole.
5. Secure with screws and lock washers supplied.
6. Install fiber optic cables through the waveguide bores.