

WR10 Band-Pass Filter

90-100 GHz, High Rejection and low VSWR

DESCRIPTION

Anteral's **filters (FILT)** and **multiplexers (MUX)** are available in different bands covering the frequency range from 3 GHz to 110 GHz. COTSs and custom designs are available.

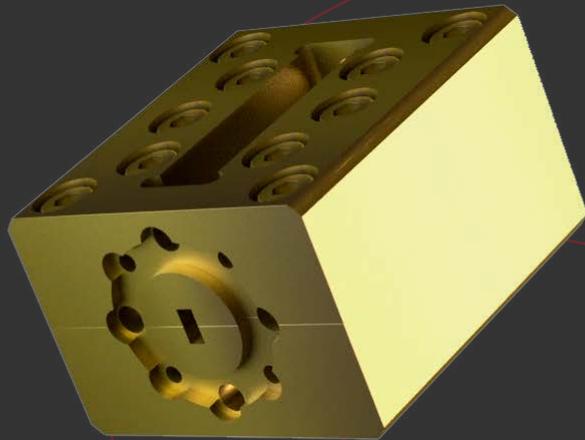
All filters and multiplexers are designed for minimum footprint and low mass. In addition, optimized assemblies for custom topologies can be requested. The filters and diplexers are small and compact by design. Low insertion losses and cutoff rejections are obtained depending on the structure.

The BPF-WR10-01 model operates from 90 to 100 GHz. This band-pass filter rejects 60 dB from 75 to 85 GHz and from 105 GHz to 110 GHz. The filter is configured with a WR10 waveguide for both ports.

APPLICATIONS

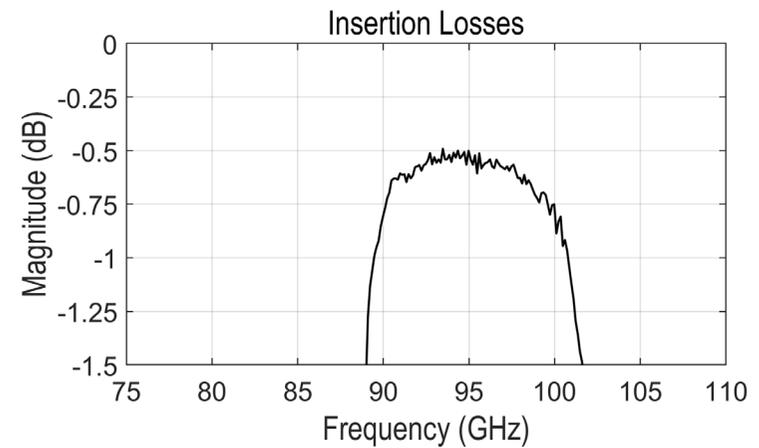
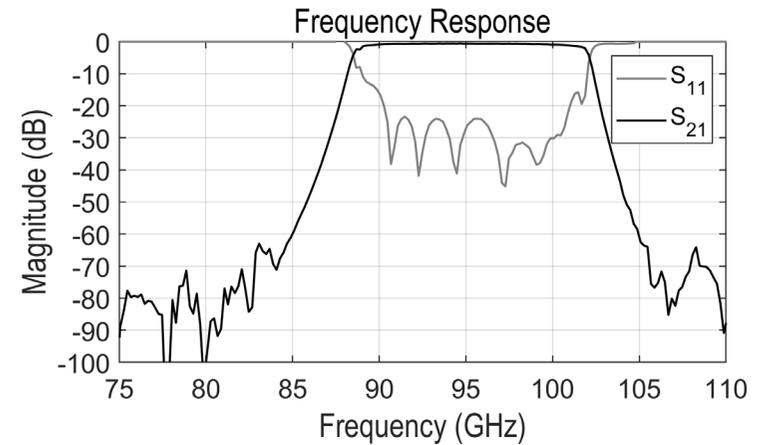
Filters are especially useful when not only high rejection and low insertion loss but also compact size is required. Therefore, these filters are widely used in space, radar, communications and SATCOM applications, among others.

Anteral also offers their **Diplexers (DPX)** from 3 GHz to 110 GHz.



ELECTRICAL SPECIFICATIONS

Parameter	Typical value
Pass band	90 - 100 GHz
Return Loss	18 dB
Insertion Loss	0.8 dB
Rejected Bands	75 - 85 GHz 105 - 110 GHz
Rejection	> 60 dB



Additional notes

All data correspond to a measurement sample. Actual values could vary slightly. The return loss performance of all items is checked before delivery.

Last version: 24/06/2022.

MECHANICAL OUTLINE

Parameter	Description
Ports	WR-10 (2.54 mm x 1.27 mm)
Flange	UG-387/U
Size	20 x 30 x 25.40 mm
Total weight	37 g
Material	Brass

