

## Ku-Band Low-Pass Filter

### 10.7-12.75 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 LPF-SAT-KU-02 model operates from 10.7 to 12.75 GHz. This low-pass filter rejects 75 dB from 13.75 to 15 GHz. The filter is configured with a WR75 waveguide for both ports.

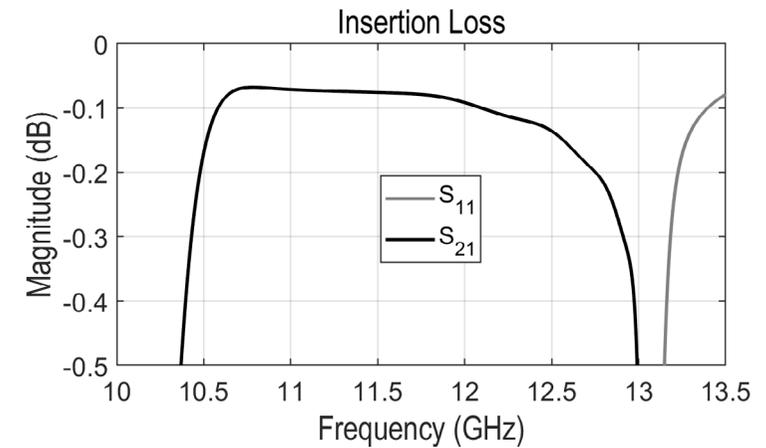
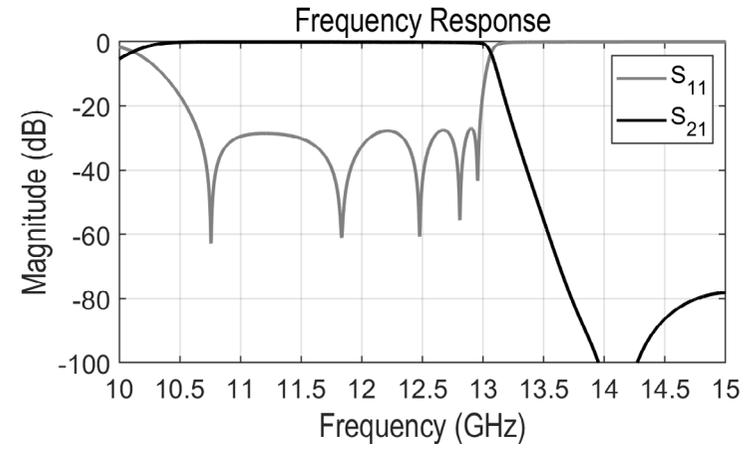
#### APPLICATIONS

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	10.7 - 12.75 GHz
Return Loss	25 dB
Insertion Loss	0.15 dB
Rejected Band	13.75 - 15 GHz
Rejection	> 75 dB



#### Additional notes

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

Last version: 13/12/2022.

### MECHANICAL OUTLINE

Parameter	Description
Ports	WR-75 (19.05 mm x 9.525 mm)
Flange	UBR 120
Size	38.3 x 38.3 x 51.2 mm
Total weight	65 g
Material	Aluminum

