

These filters are ideal for super high frequency applications demanding extremely small surface mount packages.

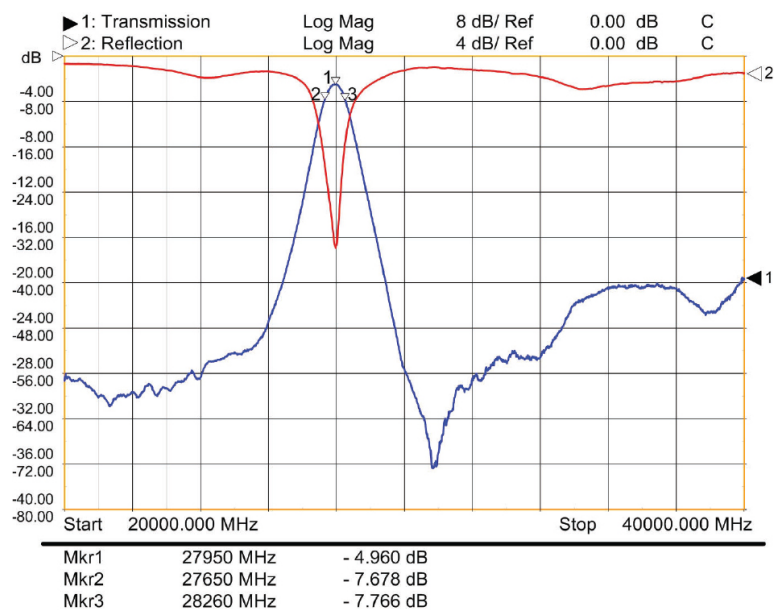


### Specifications

- Type of connectors: SMT
- Frequency range: 5 to 30 GHz
- Impedance: 50 Ohms
- Number of sections: 3 to 5
- % Bandwidth: 2% to 5%
- Return loss: 10 dB (min)
- Insertion loss: Will depend on the number of sections and configuration.
- Dimensions: The height is less than 0.040". The width and length will depend on the number of sections and configuration.

### Features:

- Designed combining two existing technologies such as planar substrates and cavities
- Can be easily interconnected with other printed circuit boards such as Micro-strip, CPW, Strip line, etc.
- Smaller size if compared with conventional waveguide filters
- Ideal for 5G next generation wireless networks



Above plot shows an example of our capabilities. This is a 3 poles SMT filter, centered at 27.95 GHz, BW 610 MHz (2.2 %), and return loss greater than 10 dB. Size (L x W x H): 1"x 0.250"x 0.030". IL at the center frequency is 4.96 dB. This filter offers a spurious rejection of more than 35 dB.