



5G Band Pass Filter, 28GHz

Data Sheet

PRELIMINARY

BP280BW10S4B

FEATURES

- Low Insertion Loss
- Frequency Stable over Temperature
- Small Size
- Characteristic Impedance: 50Ω
- -55°C to +125°C
- Fully Shielded Component
- Moisture Sensitivity Level: MSL2A
- Solderable Surface Mount Package
- Customizable to other frequencies and bandwidths

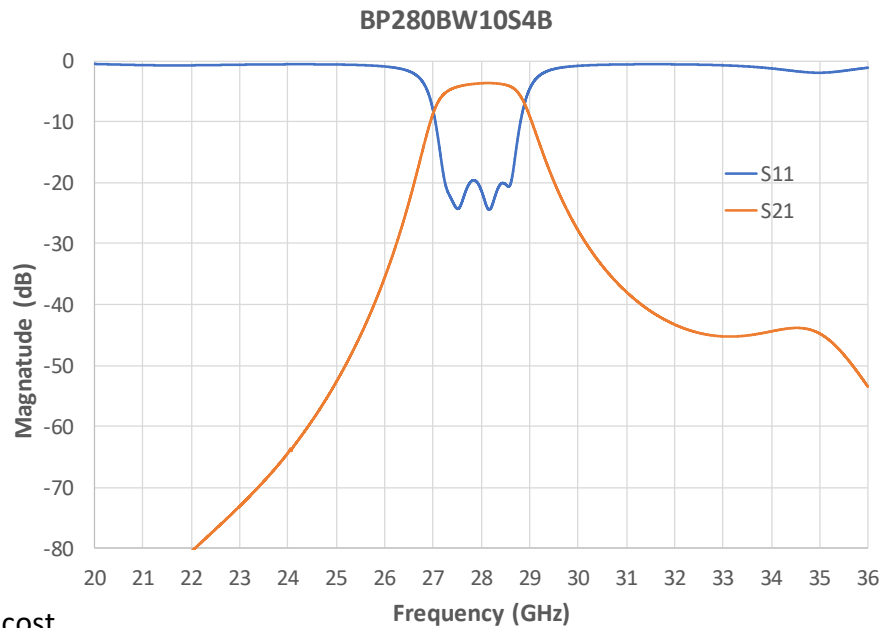
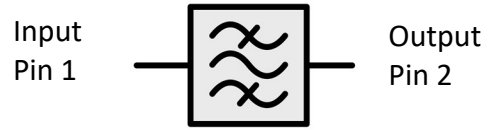
APPLICATIONS

- 5G Radio
- Radar
- Millimeter wave applications
- Cellular
- Mobile applications
- General purpose wireless
- Internet of Things
- B2B

GENERAL DESCRIPTION

The 5G Band Pass Filter is a high performance, low cost, surface mount component. The filter typically has a 3.7 dB insertion loss over a 1.0 GHz bandwidth. Filter was specifically designed for a 5G application. This small size filter has minimal variation in performance and is also highly repeatable from filter to filter. The filter is a RoHS-compliant industry-standard device.

FUNCTIONAL BLOCK DIAGRAM



Parameter	Frequency Range (GHz)	Min	Typ	Max
Insertion Loss (dB)	27.5 - 28.5		3.7	4.5
VSWR			1.5	2
Low Side Rejection (dB)	DC - 25	-40	-50	
High Side Rejection (dB)	33 - 37	-40	-45	
Input Power (dBm)				+40
Size (L x W x H)	0.543 x 0.170 x 0.029 in 13.8 x 4.3 x 0.74 mm			

Top View



Isometric View



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