



3.8 GHz Bandpass Filter

Data Sheet

BP038BW03S

FEATURES

- Low Insertion Loss
- Extreme out of band rejection to +18 GHz
- Common footprint up to 10GHz
- Customizable to other frequencies and bandwidths
- Wafer level process (low manufacturing cost)
- Extremely stable over temperature
- Characteristic Impedance: 50Ω
- -55°C to +125°C
- Moisture Sensitivity Level: MSL2A
- Surface Mount BGA Package

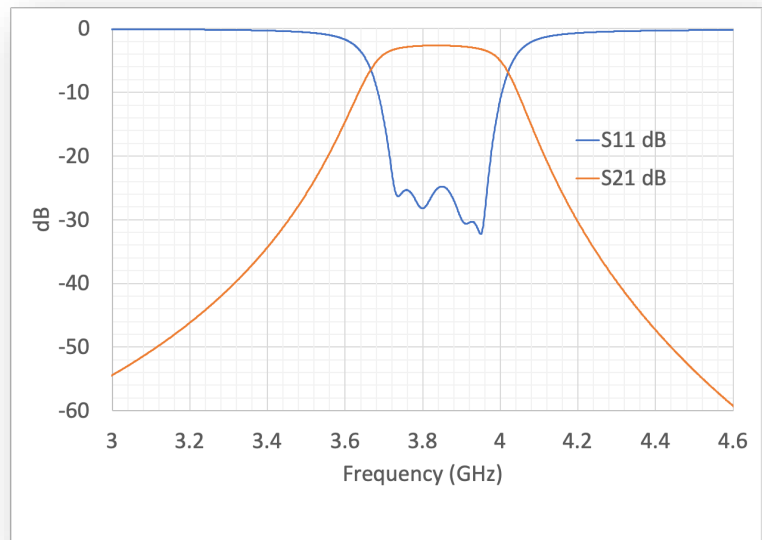
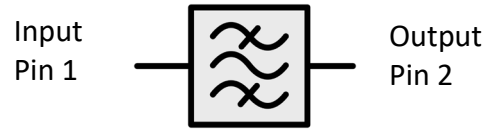
APPLICATIONS

- C-Band cellular devices
- Sub-6GHz 5G Radio
- Radar, EW and defense
- General purpose wireless
- Roofing Filter, complementary to BAW/SAW

GENERAL DESCRIPTION

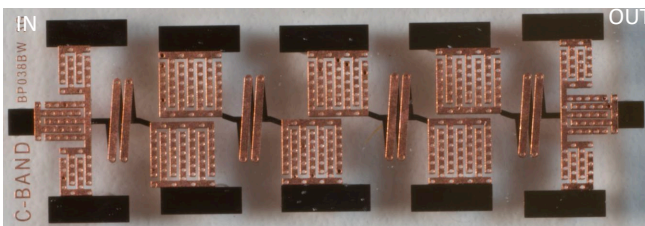
ED2's C-band Bandpass Filter is a fused silica (glass) high-performance, low cost, BGA-type surface mount component. The filter typically has a <3 dB insertion loss over a 334 MHz bandwidth. The filter's excellent rejection makes it a perfect roofing filter in complement to SAW/BAW applications. Filter was specifically designed for cellular c-band applications. 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

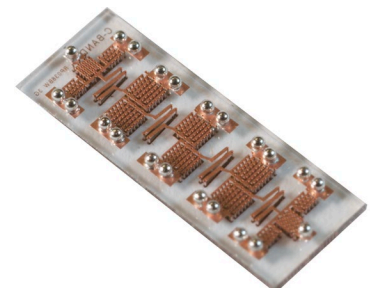


Parameter	Frequency Range (GHz)	Min	Typ. (actual)	Max
Insertion Loss (dB)	3.67 – 4.0 GHz		2.7	4
VSWR (1dB BW)			1.5	2.0
Low Side Rejection (dB)	DC- 3.2 GHz	-45		
High Side Rejection (dB)	4.3GHz – 18GHz	-45	-65	
Input Power(dBm)				+40
Size (L x W x H)	0.327 x 0.110 x 0.028 in 8.3 x 2.8 x 0.71 mm			

Top View



Isometric View



Rev. 9

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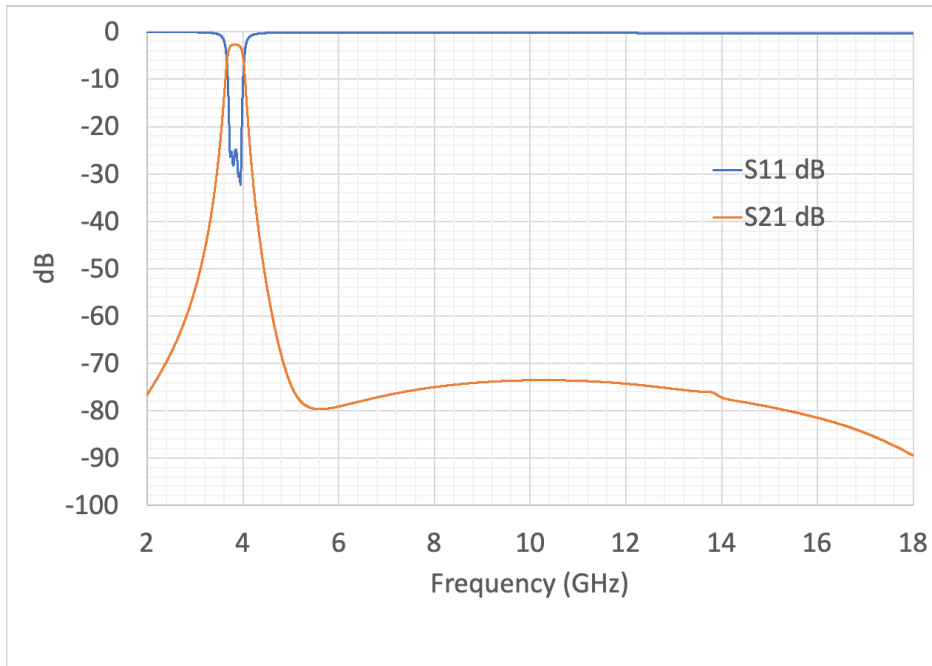
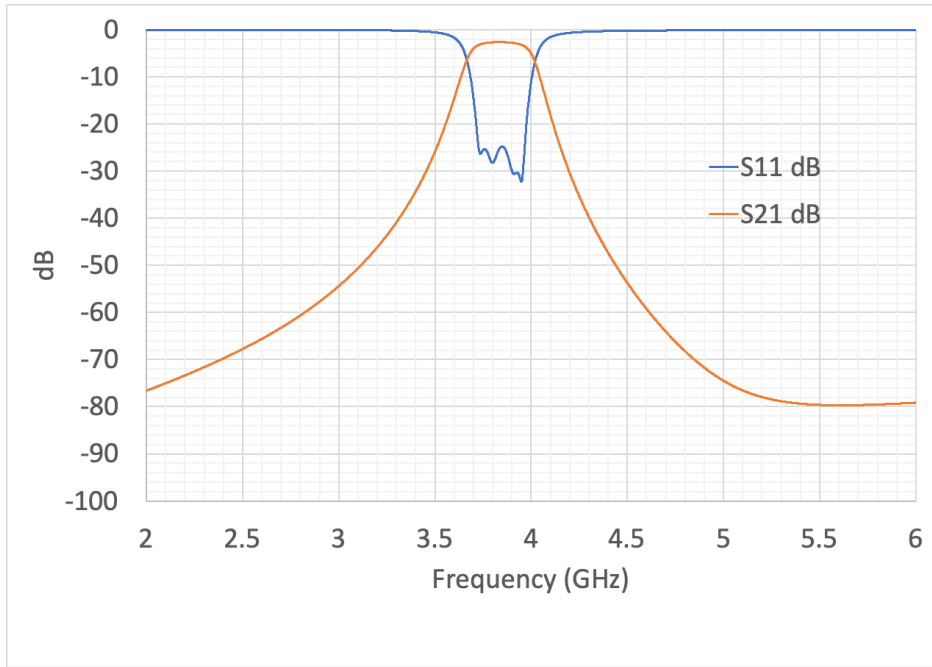
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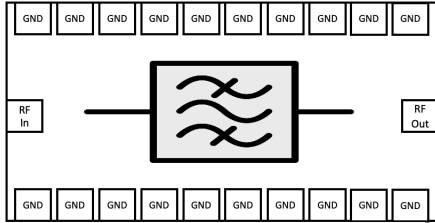


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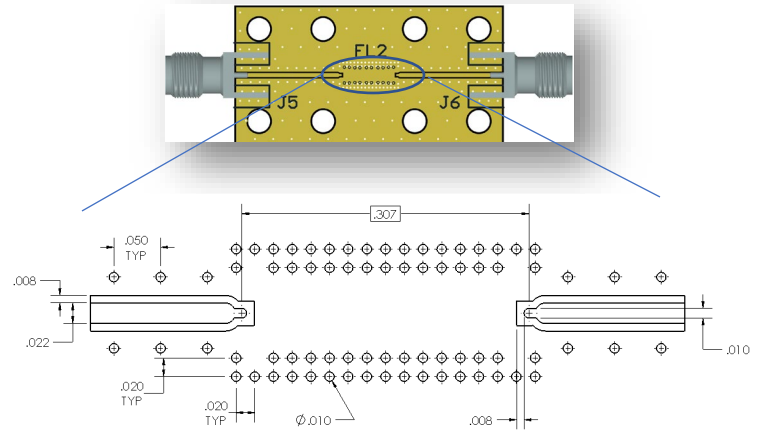
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RECOMMENDED BOARD FOOTPRINT



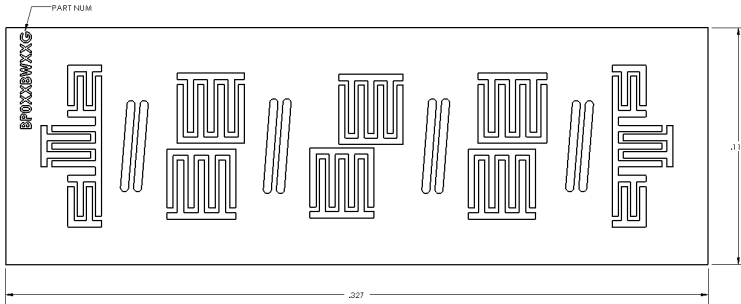
Functional Block Diagram

GCPW:
 W=22mils
 G=8mils
 H=14mils
 Er=3.7

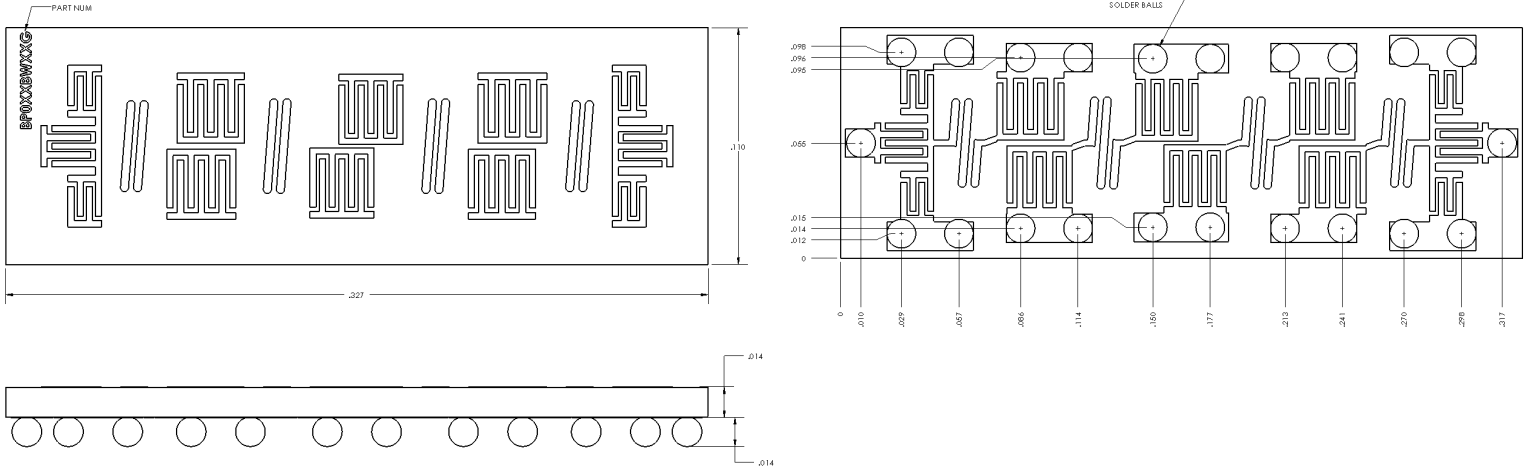


COMPONENT OUTLINE

Top View



Bottom View



PART NUMBER DESCRIPTION

