DIELECTRIC LABORATORIES
a Knowles Precision Devices brand

5.50 GHz Surface Mount Bandpass Filter

B055NC5S

PRECISION DEVICES knowles
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DESCRIPTION

One of DLI's surface mountable catalog bandpass filters designed for the 5G band. This filter utilizes DLI's low loss temperature stable materials which offer small size and minimal performance variation over temperature. The catalog BPF's are offered in a variety of frequency bands, which offers a drop in solution with highly repeatable performance.

FEATURES

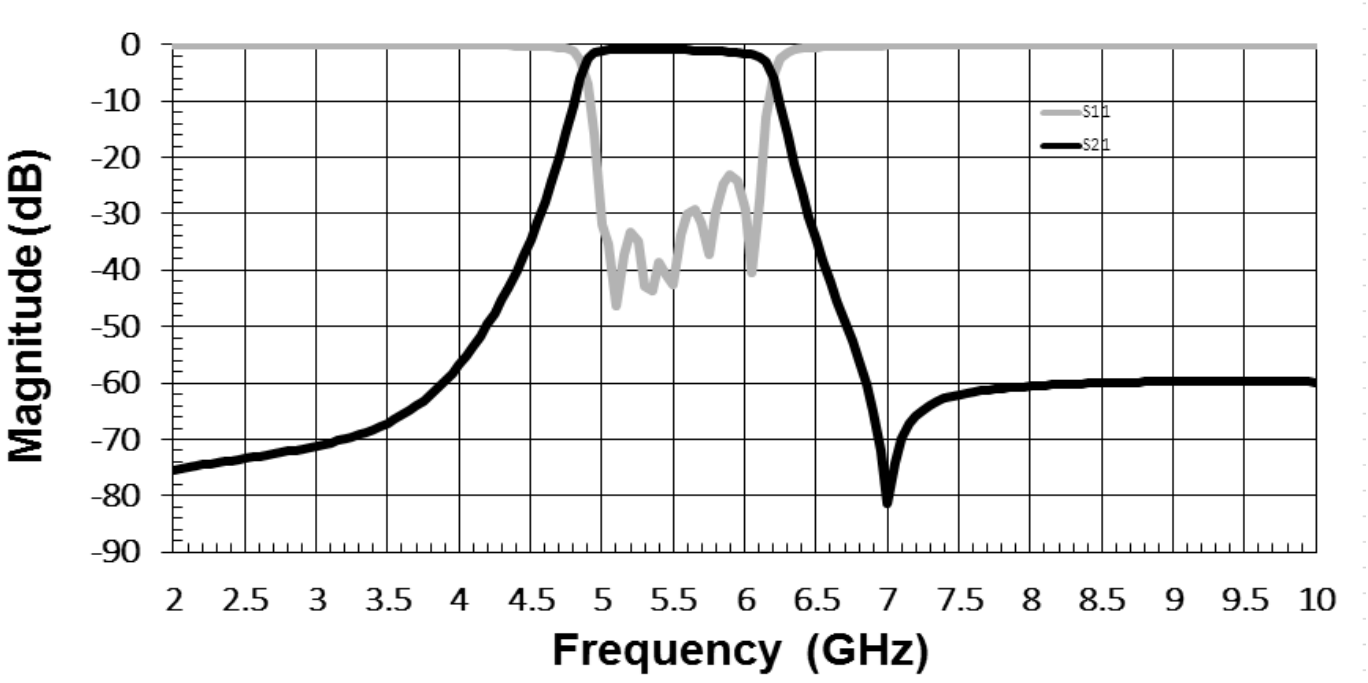
- Small Size
- Fully Shielded Component
- Solder Surface Mount Package
- Moisture Sensitivity Level: MSL1
- Frequency Stable over Temperature
- Operating & Storage Temp: -55˚C to +125˚C
- Characteristic Impedance: 50Ω

SPECIFICATIONS*

Parameter	Frequency Range (GHz)	Min	Typ.	Max
Insertion Loss (dB)	5 - 6	TBD	2	2.5
Return Loss (dB)		TBD	12	TBD
Low Side Rejection (dB)	DC - 4.2	TBD	40	TBD
High Side Rejection (dB)	6.75 - 12	TBD	40	TBD
Input Power (W)				TBD
Size (L x W x H)	0.350 x 0.200 x 0.095 in 8.89 x 5.08 x 2.41 mm			

*Electrical specifications based on typical probed performance at room temperature. Insertion loss shall vary ±0.5dB over temperature.

Typical Measured Performance



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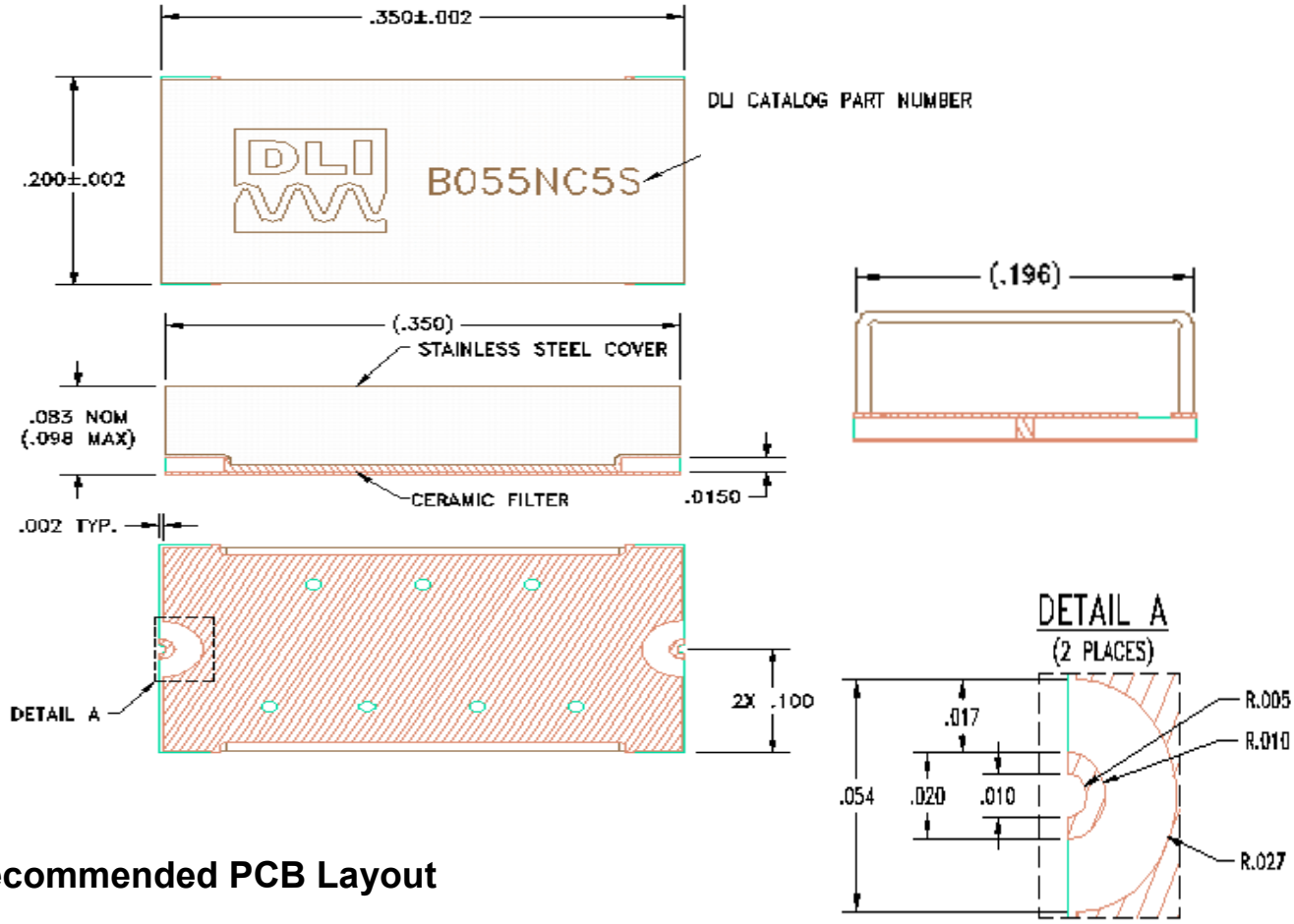
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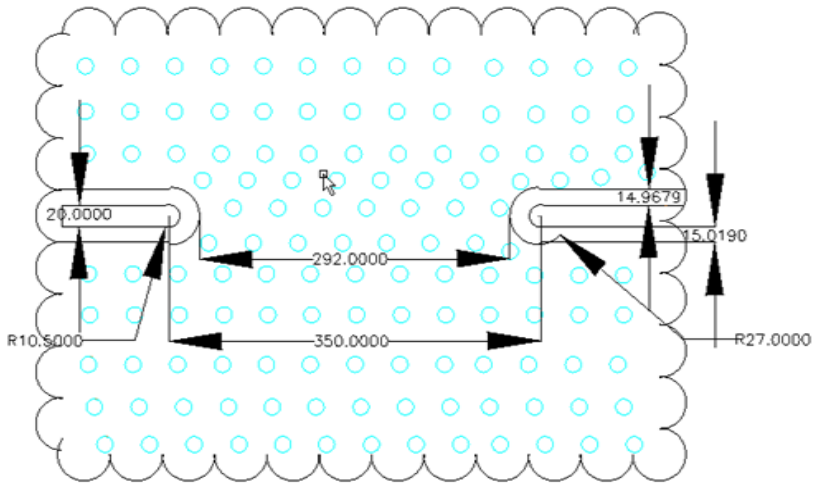
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Physical Dimensions

Units = inches



Recommended PCB Layout



- 50Ω trace dimensions are application specific.
- Ensure adequate grounding beneath the part.

ISO 9001 AS 9100 RoHS 2011/65/EU Lead Free

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