

42.5 GHz Surface Mount Bandpass Filter

B424MEZS

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
- Solder Surface Mount Package
- Moisture Sensitivity Level: MSL1
- Frequency Stable over Temperature
- Operating & Storage Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω

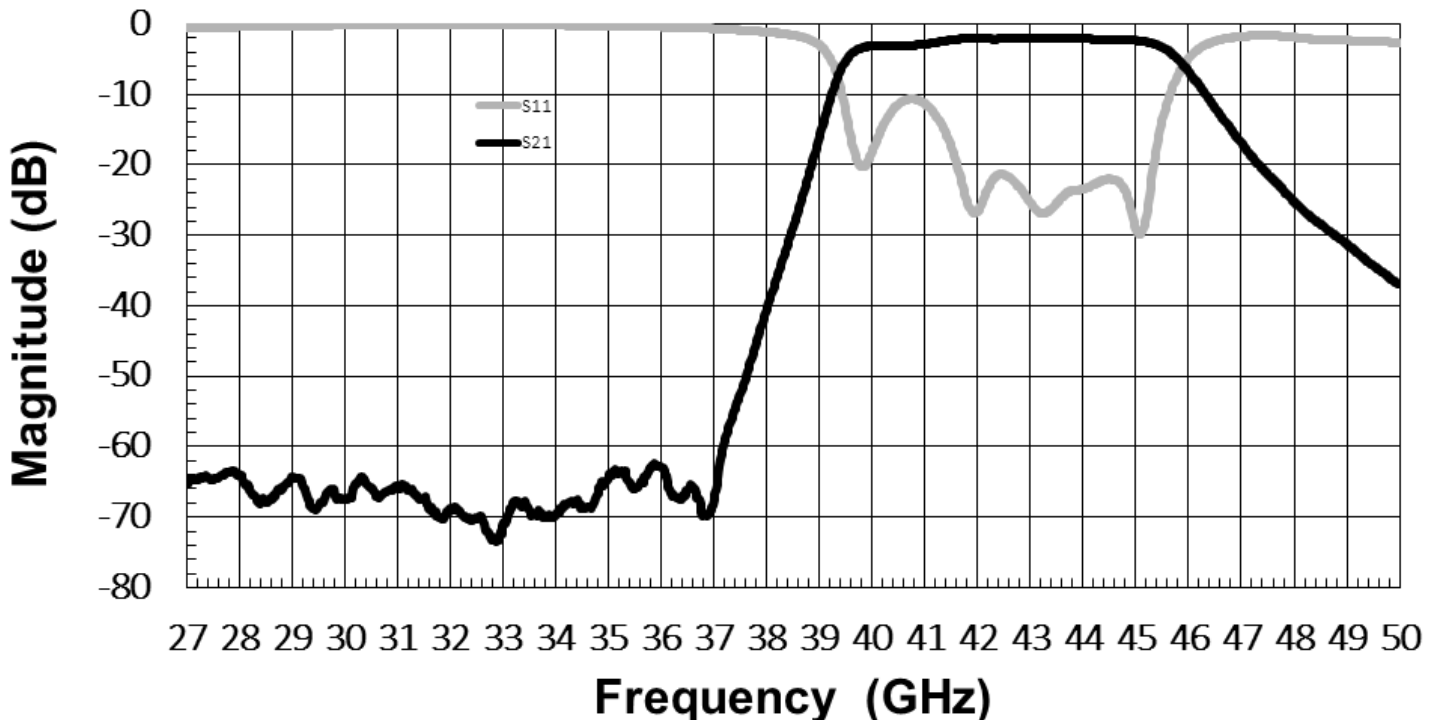
SPECIFICATIONS*

Parameter	Frequency Range (GHz)	Min	Typ.	Max
Insertion Loss (dB)	39.7 - 45.3		1.5	2
Return Loss (dB)		9.5	10	12
Low Side Rejection (dB)	DC - 37	30	40	
High Side Rejection (dB)	47.5 - 60	20	30	
Input Power (W)				TBD
Size (L x W x H)	0.236 x 0.080 x 0.065 in 6.00 x 2.03 x 0.165 mm			

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

** Customer is required to provide shielding for part to ensure proper performance.

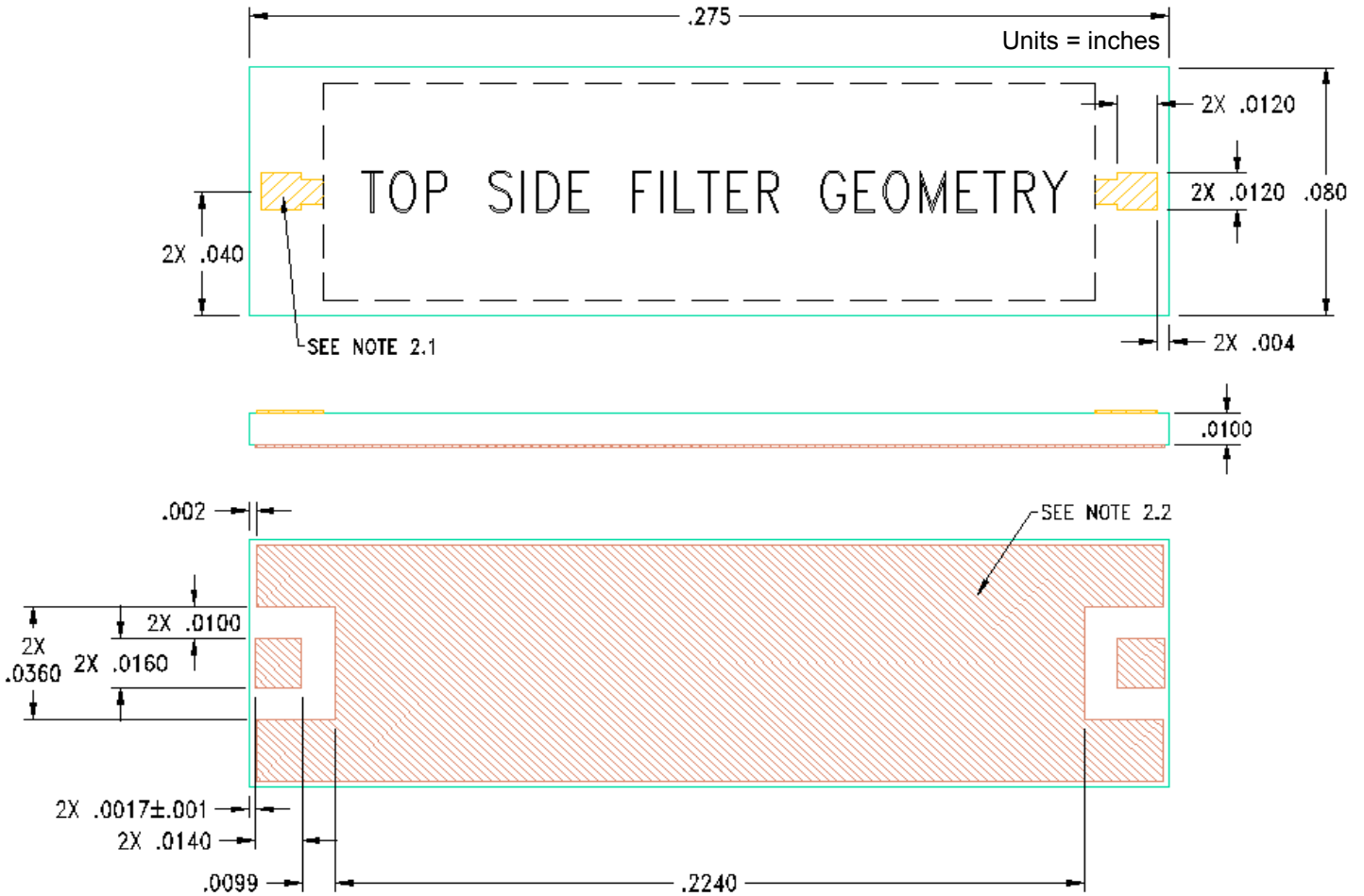
Typical Measured Performance



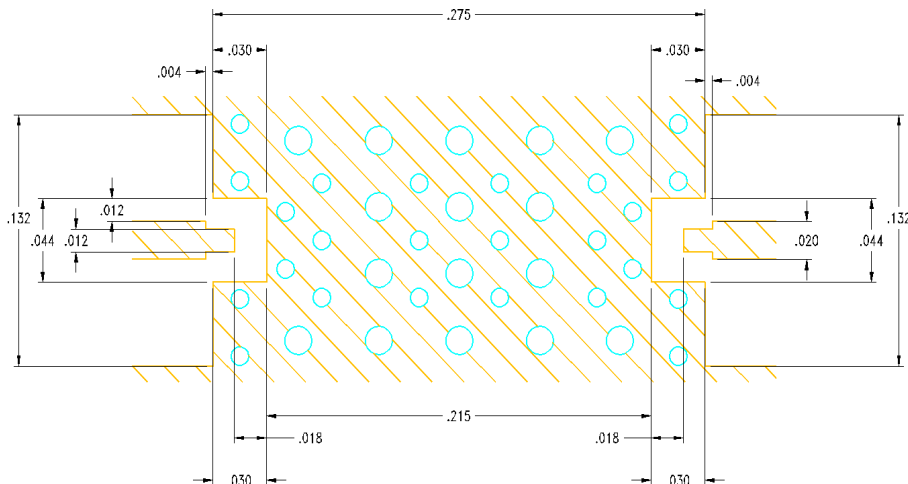
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Physical Dimensions



Recommended PCB Layout



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

