

12GHz Wirebond Bandpass Filter

B120RF0W

www.knowlesc capacitors.com

DESCRIPTION

One of DLI's wirebond catalog bandpass filters. 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
- Wirebond
- Moisture Sensitivity Level: MSL1
- Frequency Stable over Temperature
- Operating & Storage Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω

Packaging and Ordering information:

To request Tape and Reel packaging, please order part number B120RF0W-T

SPECIFICATIONS*

Parameter	Frequency Range (GHz)	Min	Typ.	Max
Insertion Loss (dB)	6.00 - 18.00	-	2.2	2.5
Return Loss (dB)		10	15	12
Low Side Rejection (dB)	DC - 3.30	40	45	-
High Side Rejection (dB)	19.80 - 22	40	45	-
CW Input Power (W)				20
$\theta_{JC} \left(\frac{^{\circ}\text{C}}{\text{W}} \right)$			3.75	
Size (L x W x H)	0.450 x 0.200 x 0.103 in 11.43 x 5.08 x 2.62 mm			



*Electrical specifications based on typical mounted performance at room temperature. Insertion loss shall vary $\pm 0.5\text{dB}$ over temperature.

** Power rating assumes the component will be mounted to a PCB with good thermally conducting ground via's as outlined in the recommended PCB layout that are connected to an adequate heat sink. Max power is based on 125°C base temperature.

Information in this document is for informational and guideline purposes only. All information regarding the Product described in this datasheet is subject to change from time to time at Knowles Precision Devices' sole discretion. It is the customer's sole responsibility to evaluate the suitability of the Product in the customer's particular application. Knowles Precision Devices assumes no responsibility or liability for the use of the information contained within.

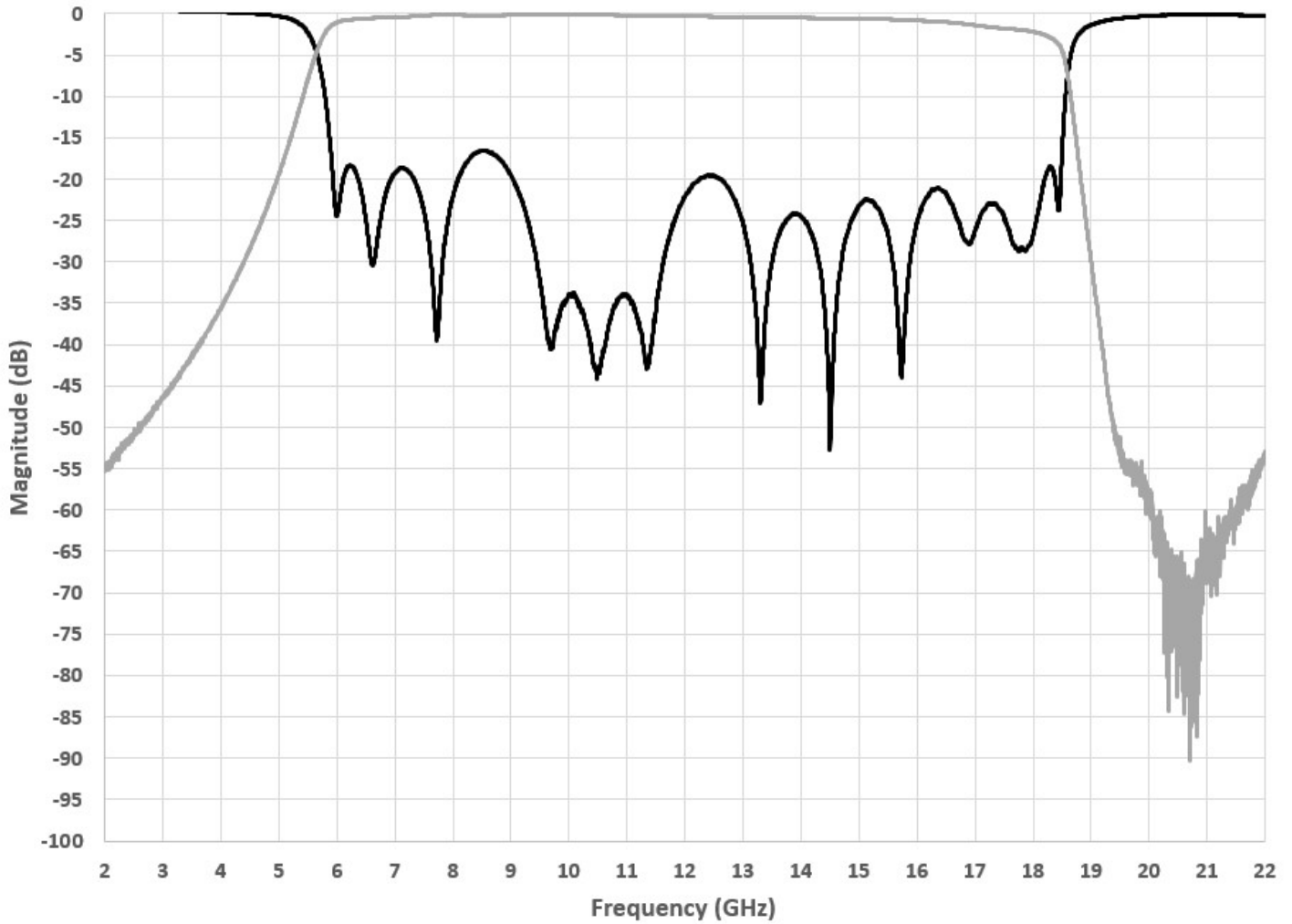
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Typical Measured Performance



*Typical de-embedded measured performance mounted on a connectorized test DEB (0.010in RO4350B with 50Ω CPW ground traces), tested at room temperature

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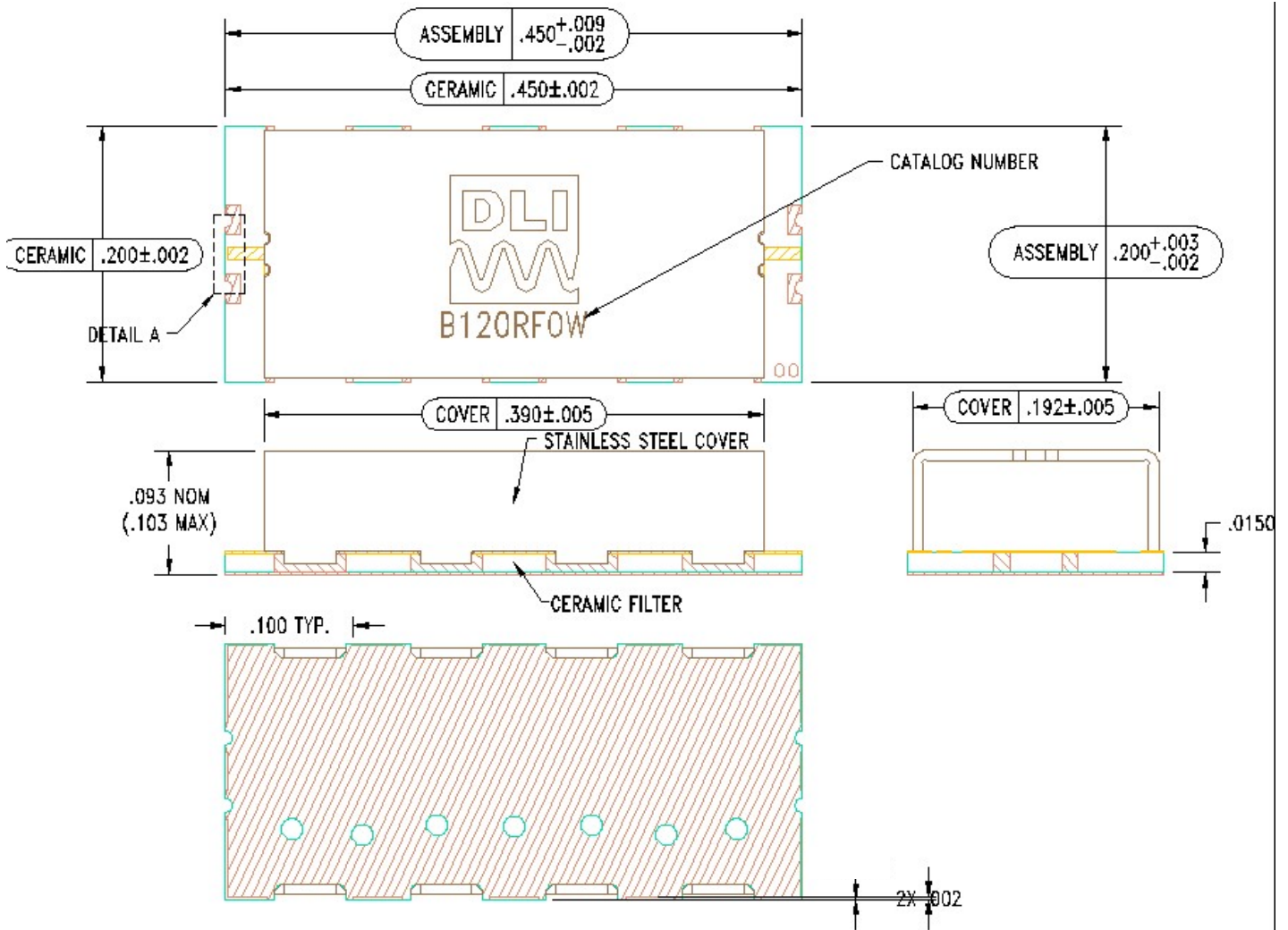
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Physical Dimensions

Units = inches



Notes :

1. Termination Finish:

ENIG: 3 - 6 μ inch Au over 50 μ inch Ni

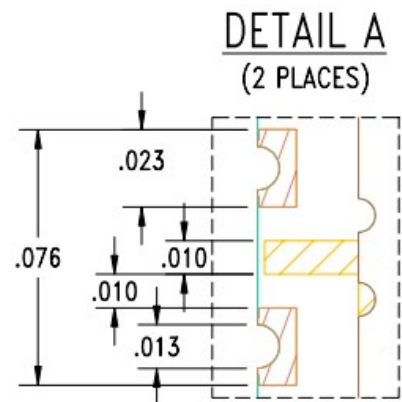
2. Maximum Assembly Process Temperature: 250°C

Tolerances:

For values with 3 decimal places ± 0.001

For values with 4 decimal places ± 0.0005

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