

**3 - 24.5GHz High Pass Filter**

**H026XHXW**

**DESCRIPTION**

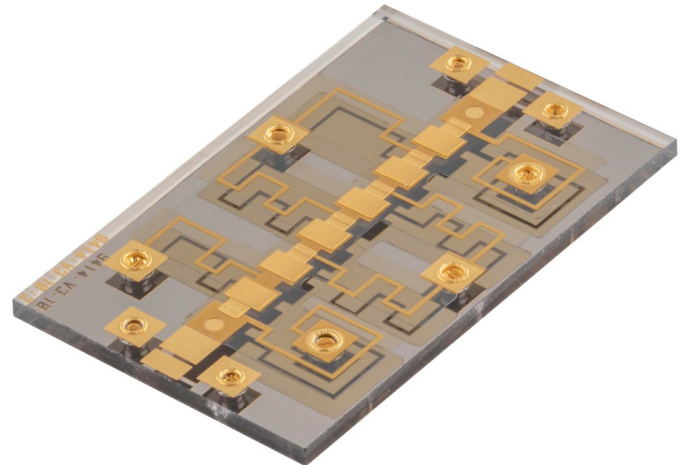
DLI introduces a wide band wire bondable (WB) catalog filter. This filter utilizes Knowles' unique multilayer filter technology to enable compact wideband performance.

**FEATURES**

- Small Size
- Wirebond Configuration
- Excellent Repeatability
- Moisture Sensitivity Level: MSL1
- 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 **H026XHXW-T**



**SPECIFICATIONS\***

Parameter	Frequency Range (GHz)	Min*	Typ.	Max*
Insertion Loss (dB)	3.0 - 24.5	—	0.8	2.5
Return Loss		7	12	—
Low Side Rejection (dB)	DC - 1.40	60	65	—
	1.4 - 1.70	40	45	—
CW Input Power (W) **				5
$\theta_{JC} \left( \frac{^{\circ}C}{W} \right)$			15	
Size (L x W x H)	0.250 x 0.160 x 0.010 inch 6.35 x 4.0 x 0.25 mm			

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

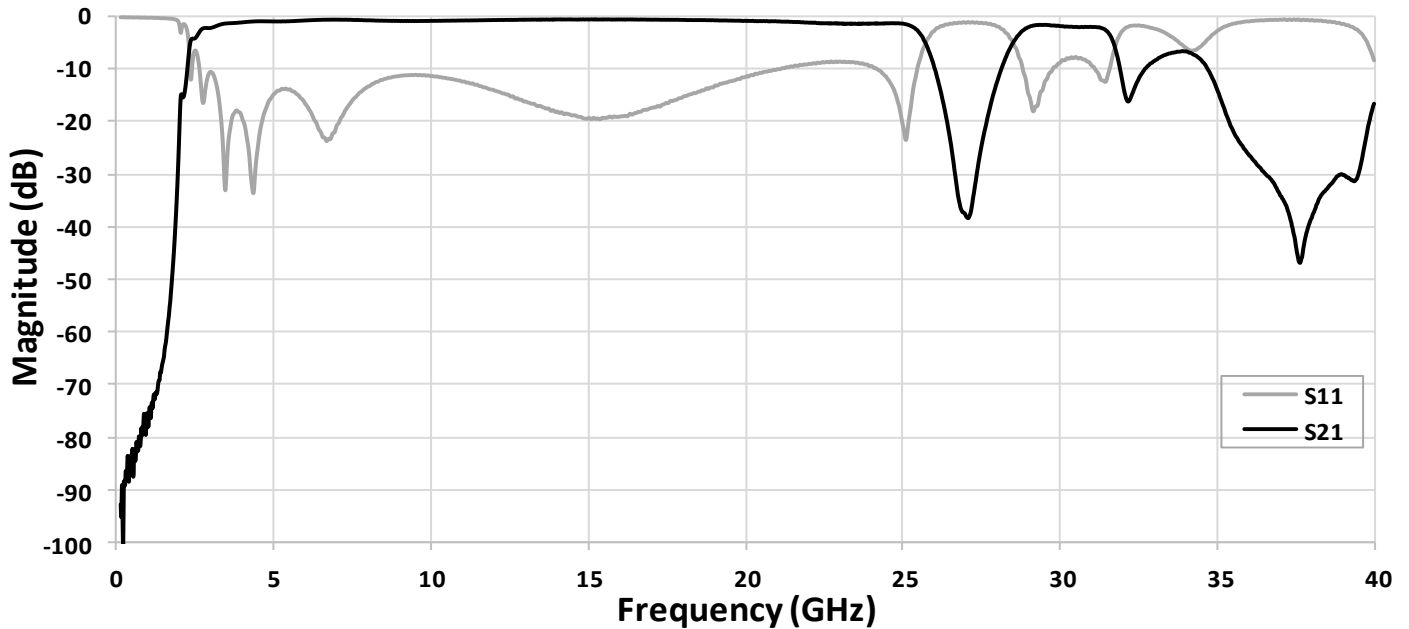
2777 Route 20 East, Cazenovia, NY 13035 | Ph.: (315)655-8710

To Order Contact [KCCSales@knowles.com](mailto:KCCSales@knowles.com) | For Technical Inquiries Contact [DLIengineering@knowles.com](mailto:DLIengineering@knowles.com)

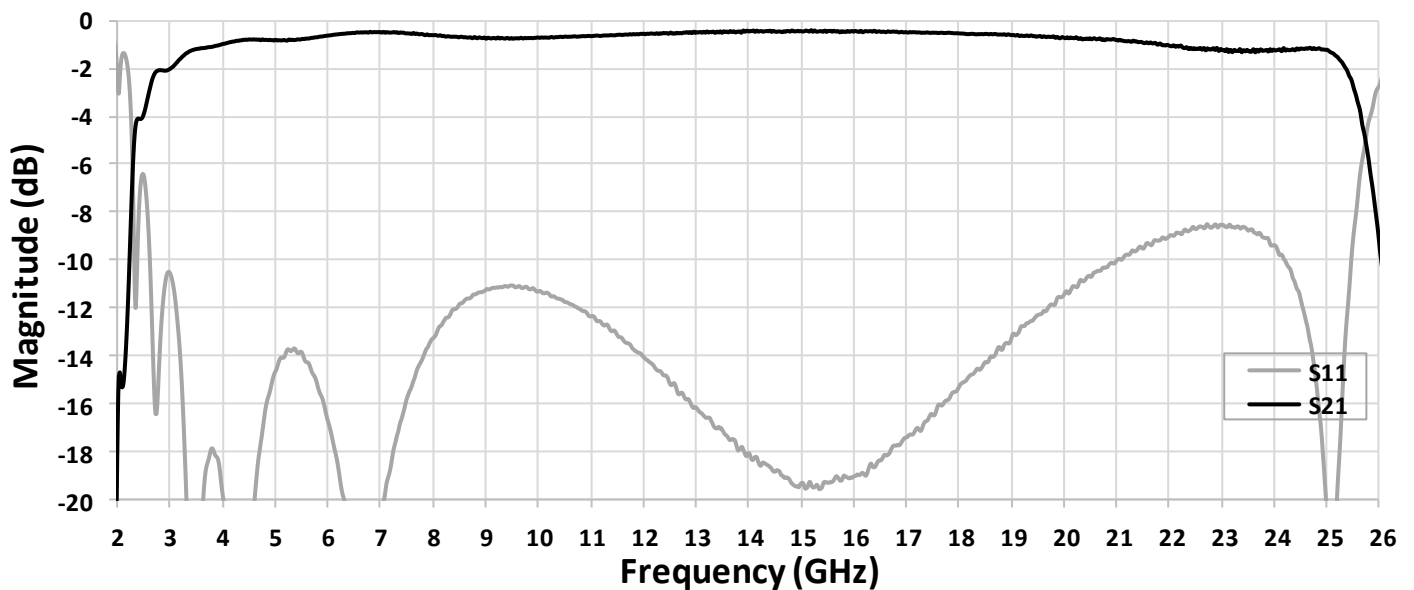
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**Typical Measured Data**



**Wideband Performance**



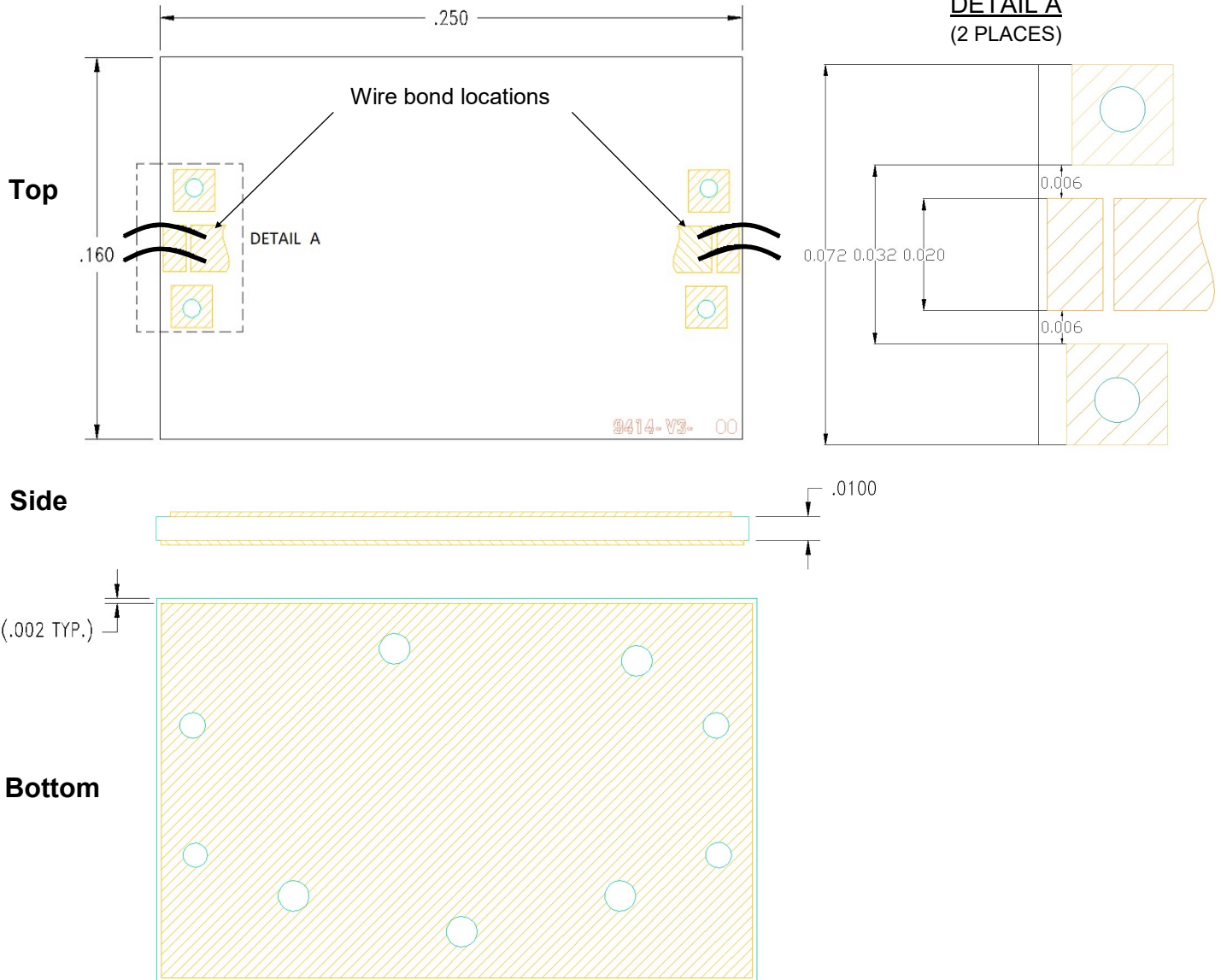
**Narrowband Performance**

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**Physical Dimensions**

Units = inches (in)



Termination Finish (including ground plane on bottom): Electro-plated Au over TiW

## Application Notes

This wire-bonded filter is attached to a flat metallized surface to provide grounding. If additional shielding is needed in the application, shielding may be added around the filter as specified below:

- **Shield material:** Gold-plated Brass, Steel, Aluminum or conductive metal
- **Minimum shield material thickness:** 0.008 inches
- **Shield height/clearance:** 0.040 inches
- **Space required around filter:** 0.005 inch

Recommended material for attachment of the filter to the housing:

- Loctite Ablestik 5025E conductive epoxy

