

DATA SHEET

915 MHz Ceramic Band-Pass Filter

Applications

- Cellular
- RFID
- Datacom/Telemetry
- SMT
- AMR

Features

- Temperature-stable ceramic
- PW handling up to *2 W CW
- Surface-mount technology (SMT) or connectorized

Benefits

- Light weight
- Package dimensions: 0.531 x 0.260 x 0.158 inch
- Superior performance

Description

Skyworks, through its wholly owned subsidiary, Trans-Tech, offers the 915 MHz Ceramic Band-Pass Filter, which can be customized to your specific needs in either a connectorized or SMT option.

Table 1 lists the electrical specifications of the 915 MHz Ceramic Band-Pass Filter. Table 2 shows the RoHS compliance specifications. Figure 1 shows the package dimensions. Figure 2 shows the standard land pattern.

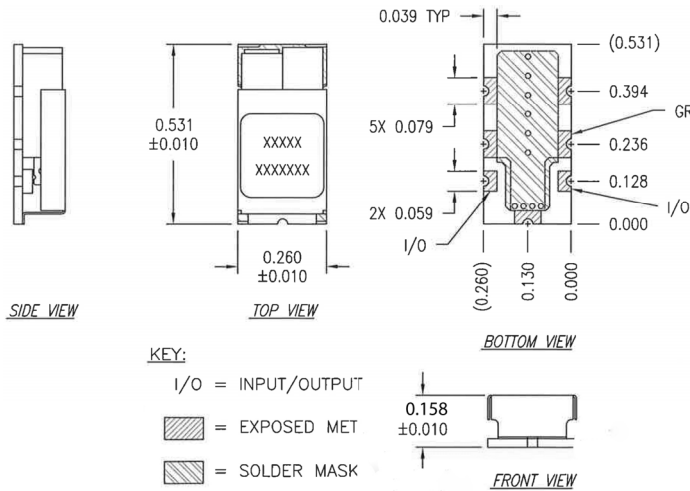
Table 1. Electrical Specifications

| Requirement | Performance Specification |
|-----------------------|---|
| Center frequency (Fo) | 915 MHz |
| Poles | 2 |
| Bandwidth (BW) | 26 MHz min |
| Insertion loss @ BW | 0.9 dB max |
| Ripple @ BW | 0.5 dB |
| VSWR @ BW | 2.0 max |
| Input power | 1.0 W max |
| Passband return loss | 10 dB min |
| Attenuation | 24 dB @ 850 MHz 15 dB @ 1800 to 1900 MHz |
| Power rating | +33 dBm |
| Impedance | 50 Ω |
| Operating temperature | -40 to +85 °C |

Table 2. RoHS Compliance Specifications

| Reflow Profile Feature | RoHS Compliant, Lead (Pb)-Free |
|---|--|
| Solder reflow profile (unless otherwise stated) | Reference solder paste manufacturer's recommendations and your component and design requirements |
| Maximum ramp-up rate | 3 °C/sec |
| Maximum time above liquidous | 90 seconds max |
| Maximum reflow temperature | 260 °C |
| Maximum time above | Max time above 240 °C = 30 seconds |
| Maximum ramp-down rate | 3 °C/sec |
| Termination | Au |

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**Figure 1. Band-Pass Filter Package Dimensions
(All Dimensions Are in Inches)**

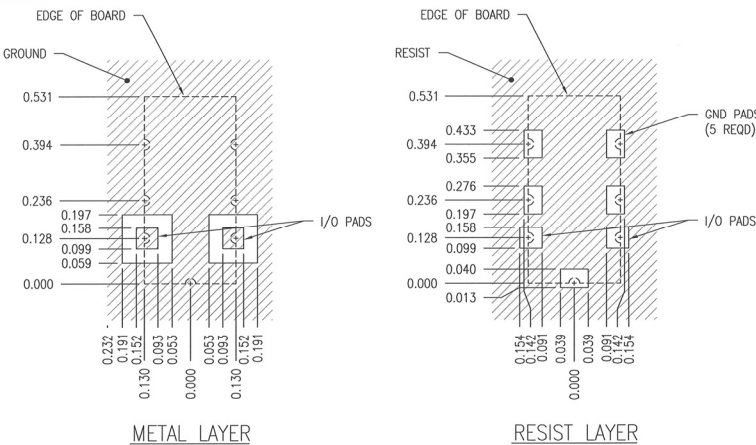


Figure 2. Band-Pass Filter Standard Land Pattern

Ordering Information

| Part Order Number | Product Description | Tape and Reel Order Number |
|-------------------|----------------------------------|----------------------------|
| 49720E | 915 MHz Ceramic Band-Pass Filter | 49720E-TR |

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