

Features

- Low Temperature Co-fired Ceramic (LTCC)
- Compact size
- Frequency Range: 4400-5000 MHz
- RoHS compliant*

Applications

- 5G

Sustainability

- Small size reduces material use
- Eco-logistics-friendly packing
- Energy-saving low-power design
- ISO 14001, low-impact energy
- Responsibly sourced and produced

Product Overview

LTCC (Low-Temperature Co-fired Ceramic) technology integrates multiple passive elements into a single monolithic structure, enabling slim, compact, and reliable microelectronic solutions.

This band-pass filter operates over the 4400–5000 MHz frequency range and supports an operating temperature range from -40 °C to +85 °C. Designed for high-performance RF front-end applications, it is well-suited for enhanced mobile broadband (eMBB), Fixed Wireless Access (FWA), and Private 5G network deployments.

Electrical Specifications

Item	Specifications
Frequency Range	4400 ~ 5000 MHz
Insertion Loss	1.5 dB max. (1.26 dB typ.) at +25 °C 1.7 dB max. -40 °C ~ +85 °C
Attenuation	35.0 dB min. (47.1 dB typ.) @ 400 ~ 915 MHz 30.0 dB min. (43.6 dB typ.) @ 925 ~ 2485 MHz 20.0 dB min. (33.9 dB typ.) @ 2485 ~ 3600 MHz 7.0 dB min. (20.2 dB typ.) @ 5850 ~ 6100 MHz 15.0 dB min. (30.2 dB typ.) @ 6100 ~ 6980 MHz 25.0 dB min. (42.3 dB typ.) @ 8800 ~ 10000 MHz 20.0 dB min. (32.9 dB typ.) @ 13200 ~ 15000 MHz
Return Loss	10 dB min.
Impedance	50 Ω
Power Capacity	3.0 W max.
ESD Classification (HBM)	Pass 1 kV on all pins
ESD Classification (MM)	Pass 200 V

Contact Information

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General Specifications

Operating Temperature: -40 °C to +85 °C
Storage Temperature -40 °C to +85 °C
Moisture Sensitivity Level..... 1
Weight 2.9 mg

Materials

Base Material Ceramic
Terminal Ag/Ni/Sn
Packaging 4,000 pcs. per 7-inch reel

How to Order

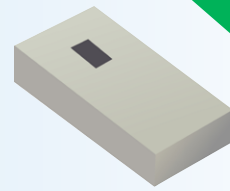
F BP 1604 N 470 L 3

LTCC RF _____
Band Pass _____
Size _____
Non-automotive Grade _____
Central Frequency _____
LGA _____
Number of Pins _____

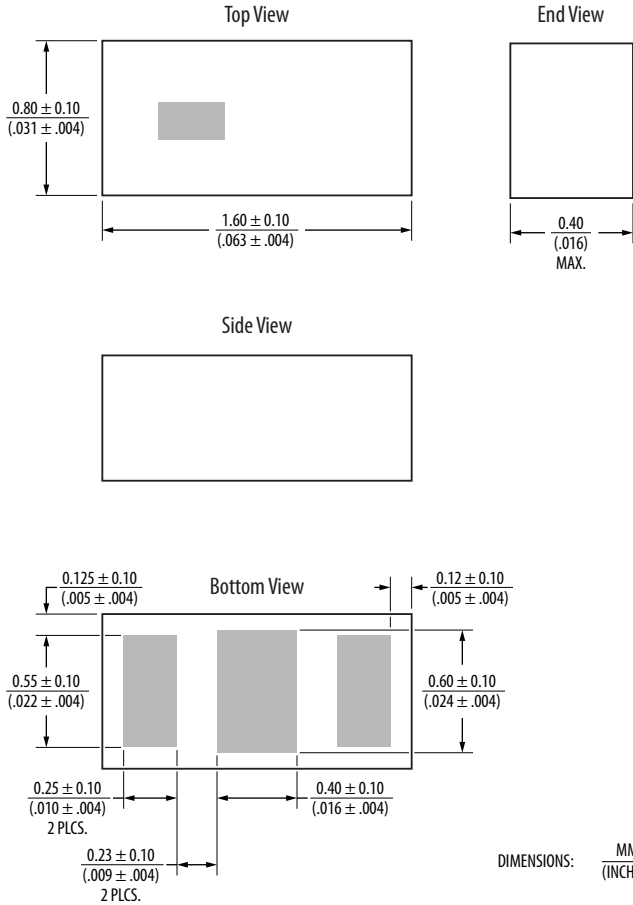
*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

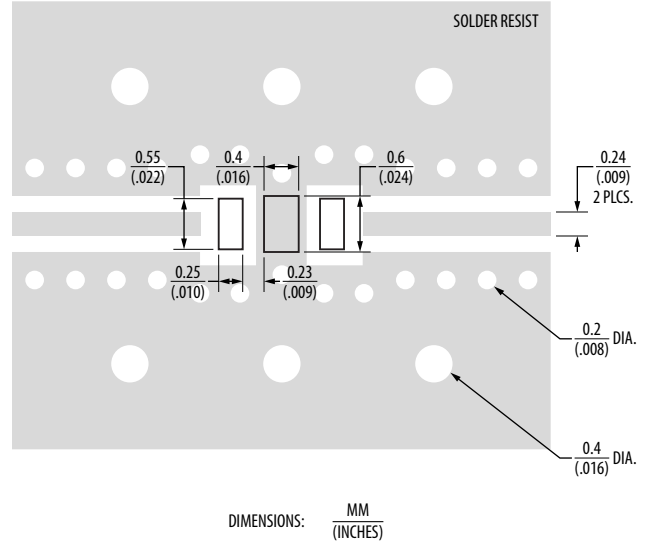
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Product Dimensions



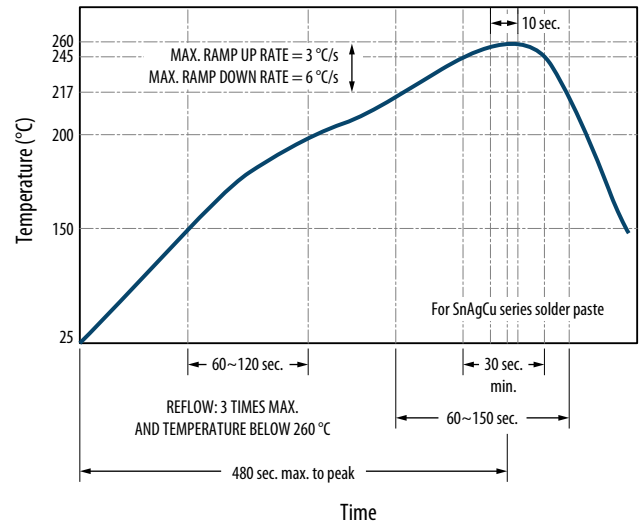
Recommended Land Pattern



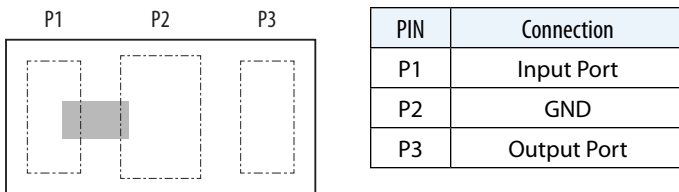
Note:

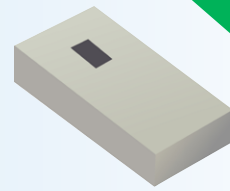
Line width to be designed to match 50 ohm characteristic impedance, depending on PCB material and thickness.

Soldering Profile

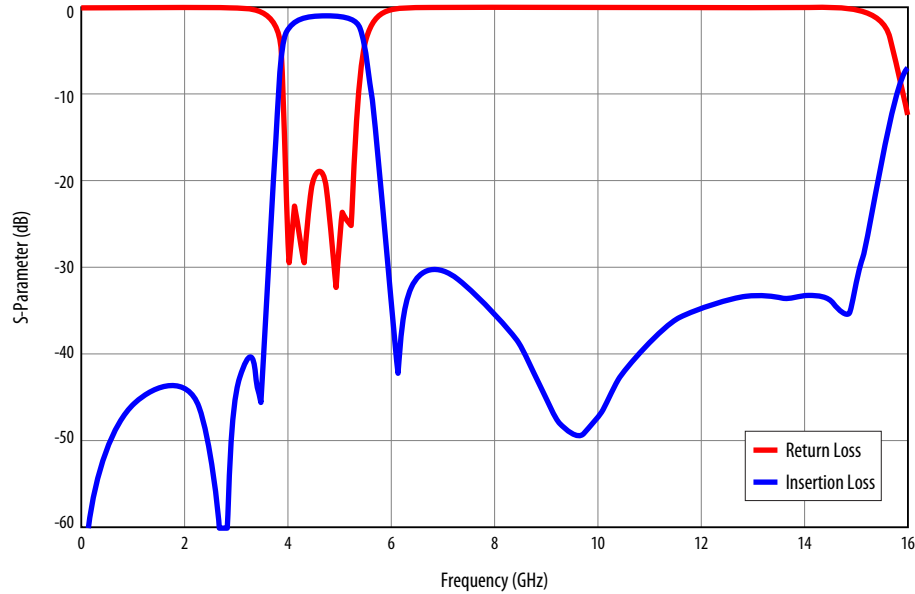


Construction

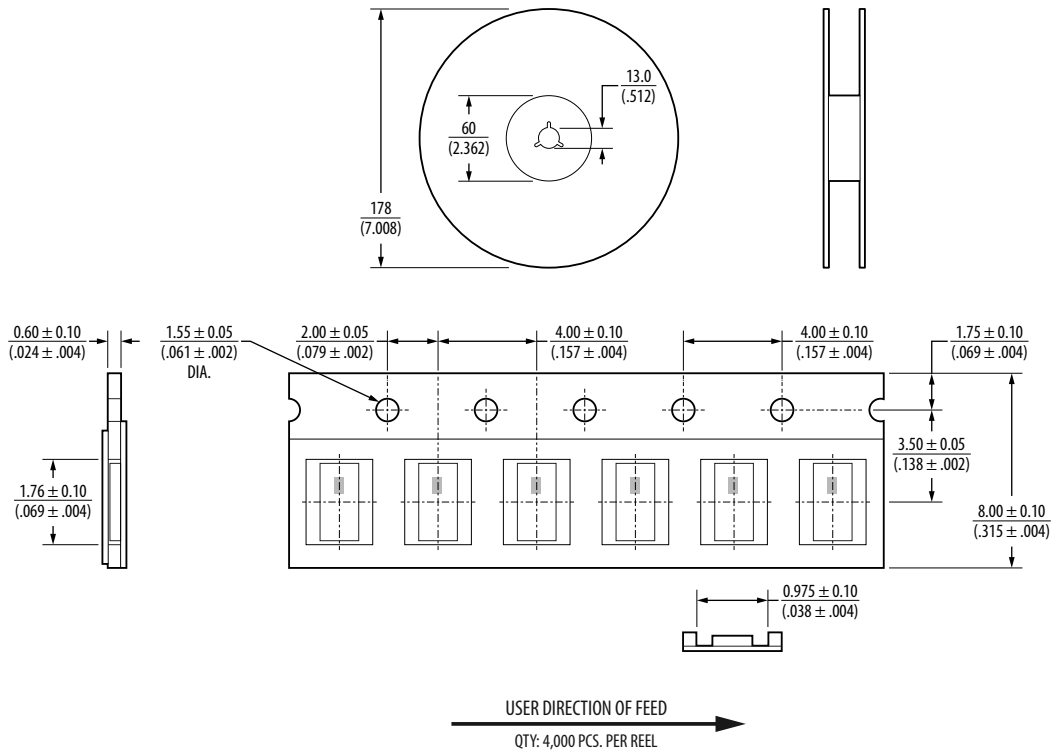




RF Characteristics vs. Frequency



Packaging Information



REV. 07/26

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