

Features

- Low-Temperature Co-fired Ceramic (LTCC)
- Compact size
- Working frequency: 824-960 MHz
- RoHS compliant*

Applications

- IoT / LTE

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.

The low-pass filter operates over a frequency range of 824–960 MHz and supports an operating temperature range of –40 °C to +85 °C, making it suitable for a wide variety of wireless communication applications.

Electrical Specifications

Item	Specifications
Frequency Range	824 ~ 960 MHz
Insertion Loss	0.70 dB max. (0.61 dB typ.) at +25 °C 0.90 dB max. at -40 °C ~ +85 °C
Attenuation	20 dB min. (29.4 dB typ.) @ 1648 ~ 1920 MHz 25 dB min. (34.8 dB typ.) @ 2472 ~ 2880 MHz 25 dB min. (32.8 dB typ.) @ 3296 ~ 3840 MHz
VSWR	2.0 max.
Impedance	50 Ω
Power Capacity	3 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 1.2 mg

Materials

Base Material Ceramic
 Terminal Ag/Ni/Sn
 Packaging 10,000 pcs. per 7-inch reel

How to Order

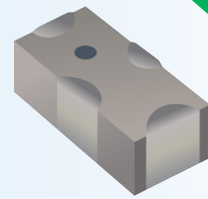
F LP 1004 N 089 D 4

LTCC RF _____
 Low Pass _____
 Size _____
 Non-automotive Grade _____
 Central Frequency _____
 DIP _____
 Number of Pins _____

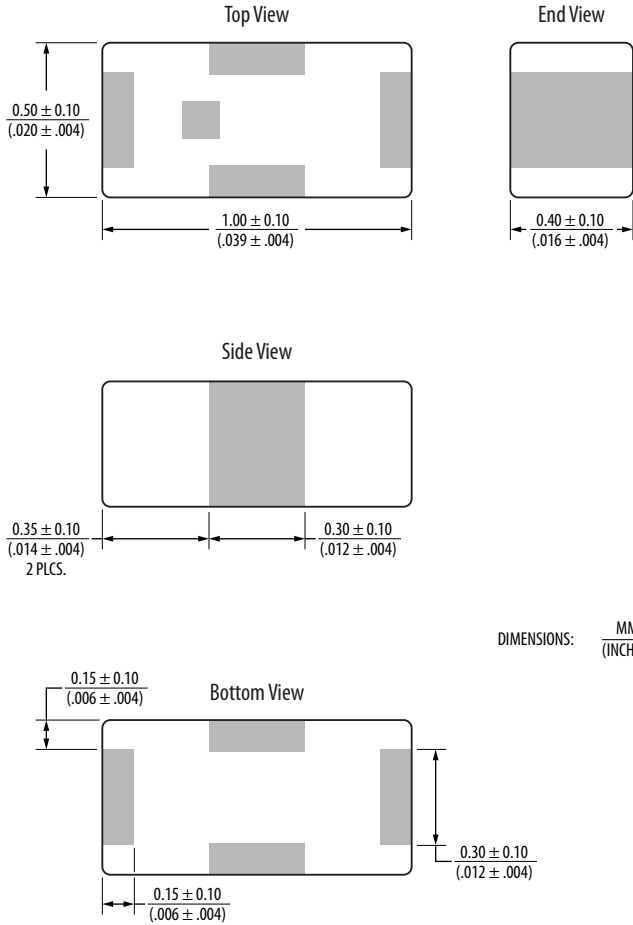
*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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

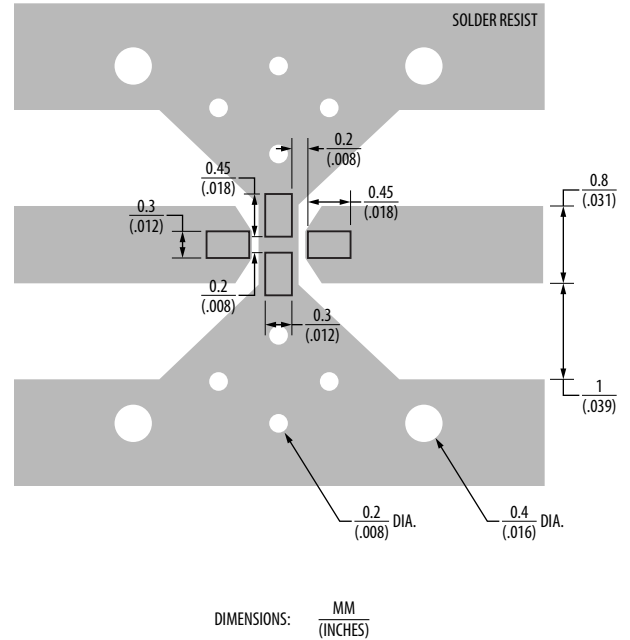
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Product Dimensions



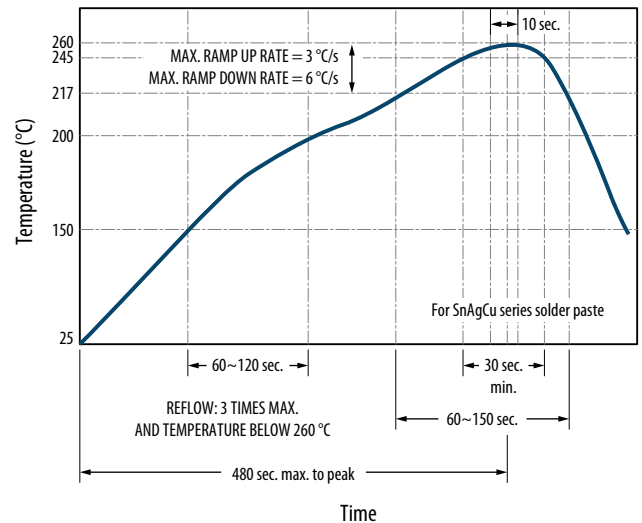
Recommended Land Pattern



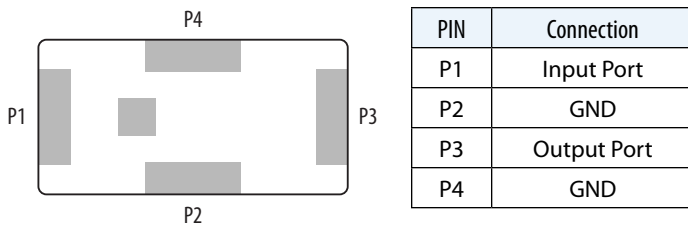
Note:

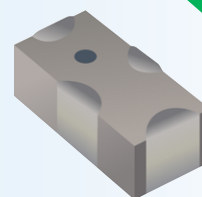
Line width to be designed to match 50 ohm characteristic impedance, depending on PCB material and thickness.

Soldering Profile

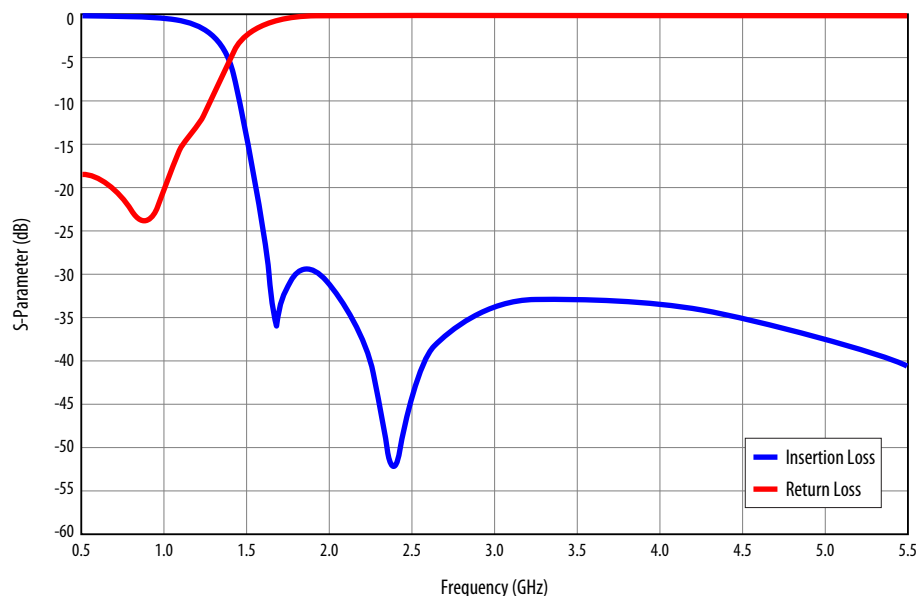


Construction

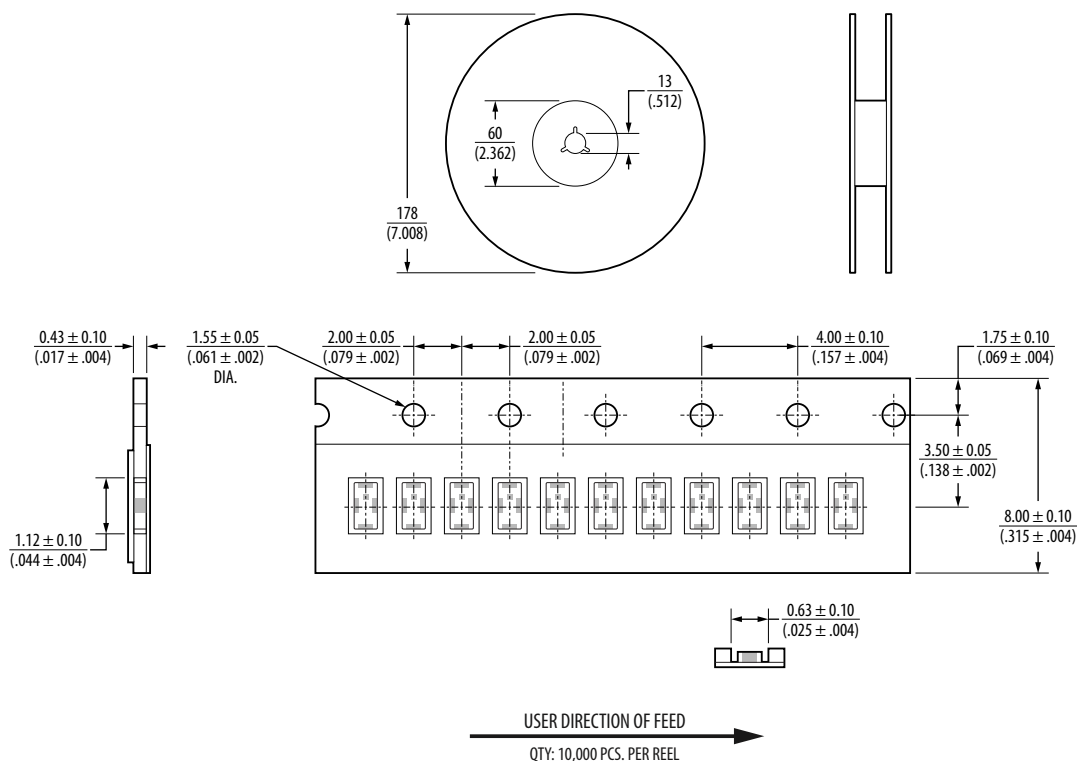




RF Characteristics vs. Frequency



Packaging Information



REV. 07/26

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