

Features

- Low-Temperature Co-fired Ceramic (LTCC)
- Compact size
- Working frequency: DC-500 MHz
- RoHS compliant*

Applications

- IoT

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 DC-500 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	DC ~ 500 MHz
Insertion Loss	0.7 dB max. (0.40 dB typ.) at 25 °C 0.9 dB max. at -40 °C ~ +85 °C
Attenuation	9.0 dB (10.5 dB typ.) @ 824 ~ 960 MHz 25.0 dB (35.2 dB typ.) @ 1710 ~ 1990 MHz 25.0 dB (34.1 dB typ.) @ 2400 ~ 4000 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 11.7 mg

Materials

Base Material Ceramic
Terminal Ag/Ni/Sn
Packaging 2,000 pcs. per 7-inch reel

How to Order

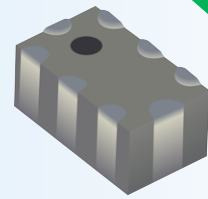
F LP 2009 N 025 D 8

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

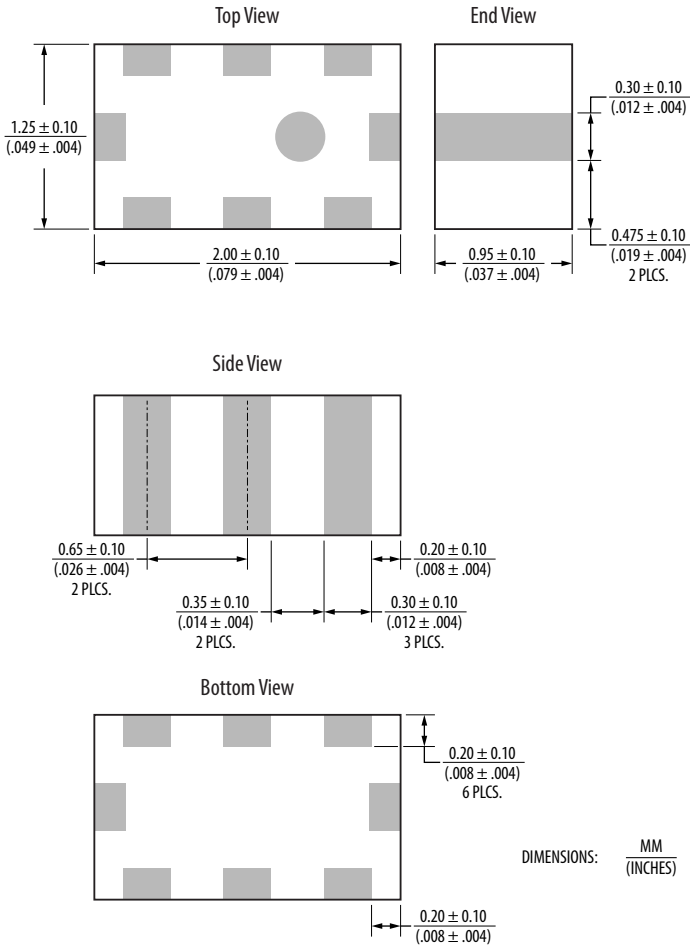
*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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

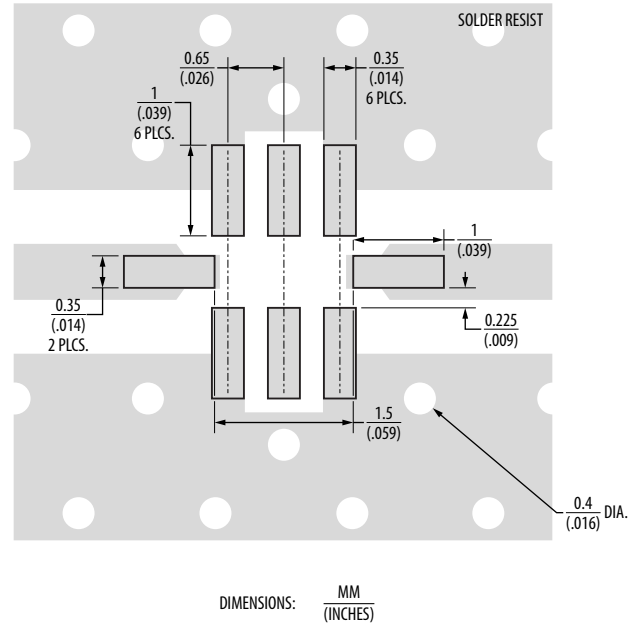
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Product Dimensions



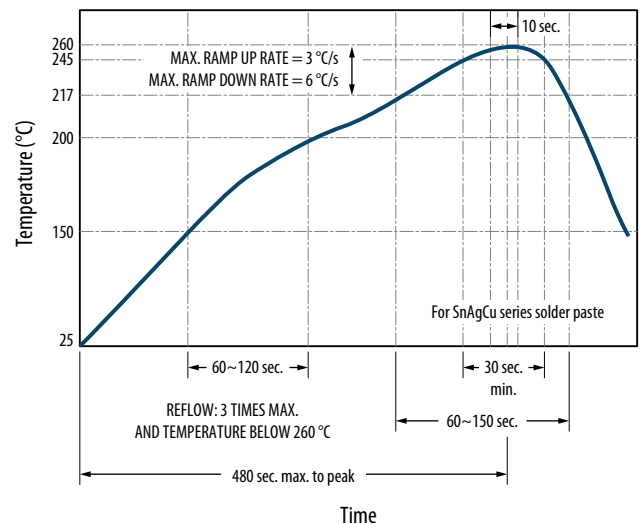
Recommended Land Pattern



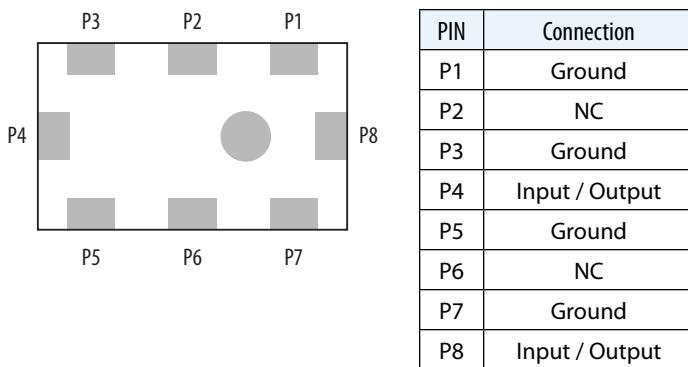
Note:

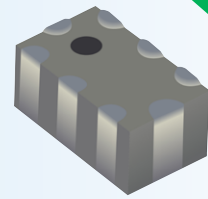
Line width to be designed to match 50 ohm characteristic impedance, depending on PCB material and thickness.

Soldering Profile

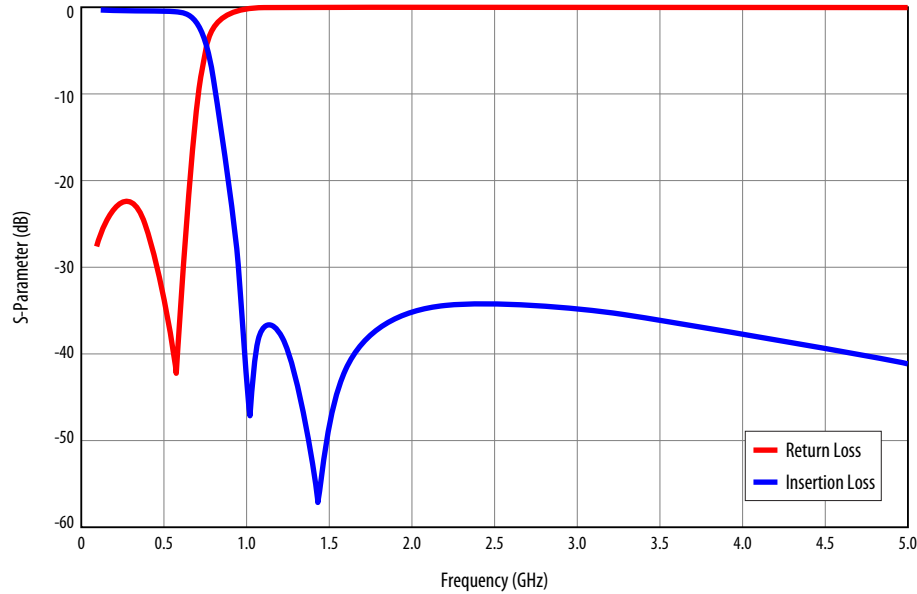


Construction

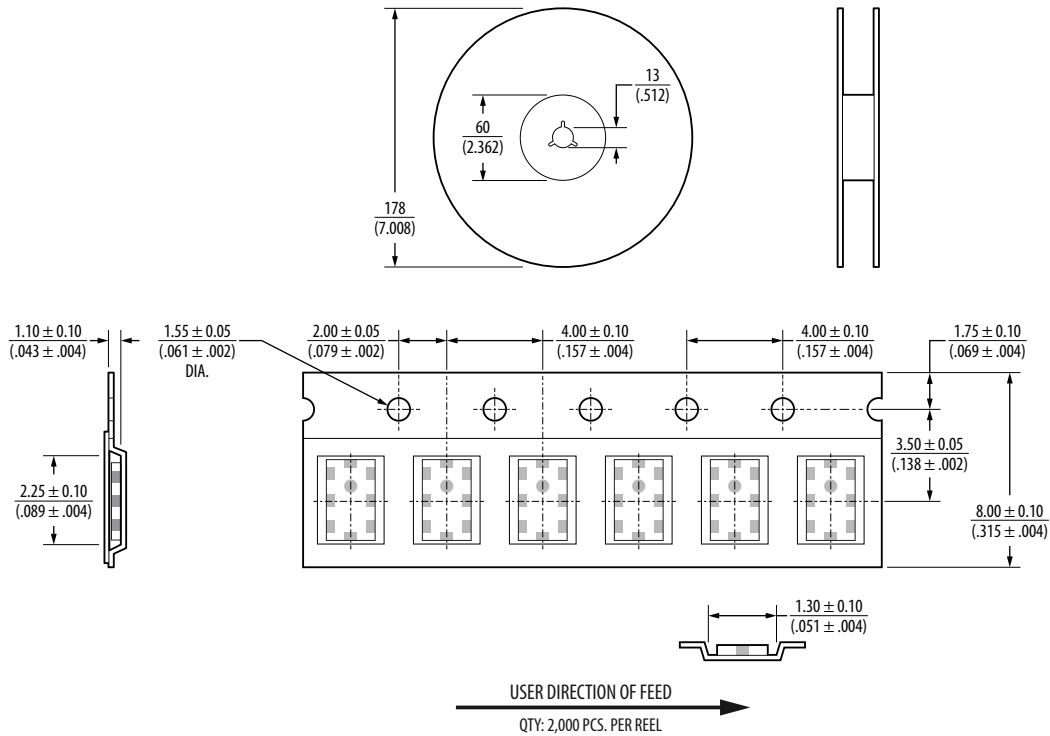




RF Characteristics vs. Frequency



Packaging Information



REV. 07/26

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