

Features

- Low-Temperature Co-fired Ceramic (LTCC)
- Compact size
- Working frequency: 800-2025 MHz
- RoHS compliant*

Applications

- IoT / LTE
- GNSS

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 800–2025 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	800 ~ 2025 MHz
Insertion Loss at +25 °C	0.5 dB max. (0.39 dB typ.) @ 800 ~ 1000 MHz 0.8 dB max. (0.63 dB typ.) @ 1700 ~ 1910 MHz 1.5 dB max. (0.98 dB typ.) @ 2010 ~ 2025 MHz
Insertion Loss at -40 °C ~ +85 °C	0.7 dB max. @ 800 ~ 1000 MHz 1.0 dB max. @ 1700 ~ 1910 MHz 1.8 dB max. @ 2010 ~ 2025 MHz
Attenuation	20 dB min. (22.5 dB typ.) @ 2300 ~ 3700 MHz 30 dB min. (32.9 dB typ.) @ 3700 ~ 4100 MHz 20 dB min. (25.5 dB typ.) @ 4100 ~ 6100 MHz 10 dB min. (14.5 dB typ.) @ 6100 ~ 8000 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 13.0 mg

Materials

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

How to Order

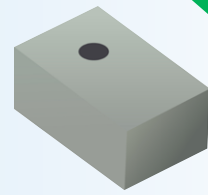
F L P 2009 N 141 L 3

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

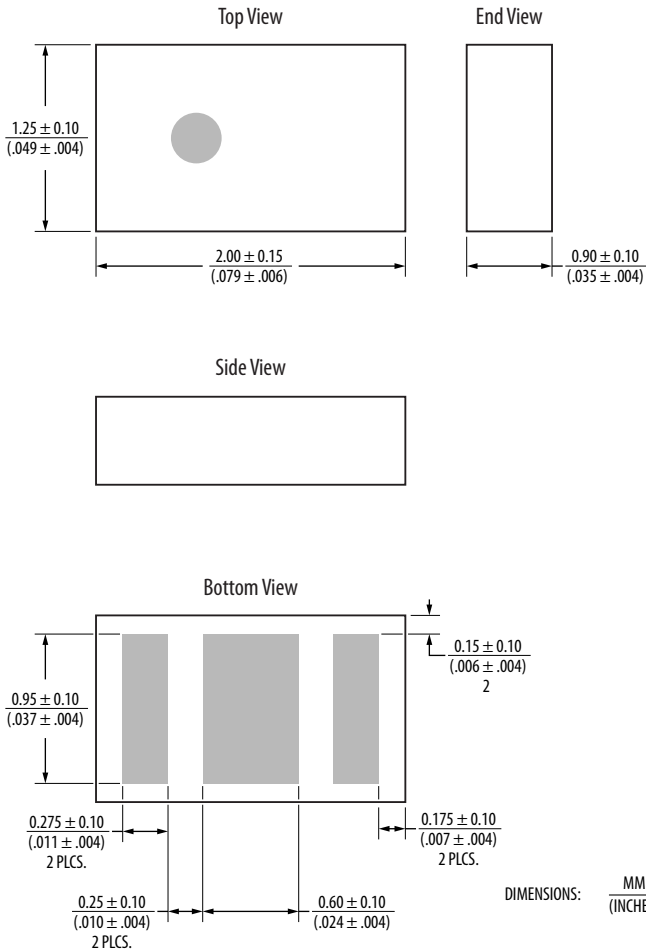
*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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

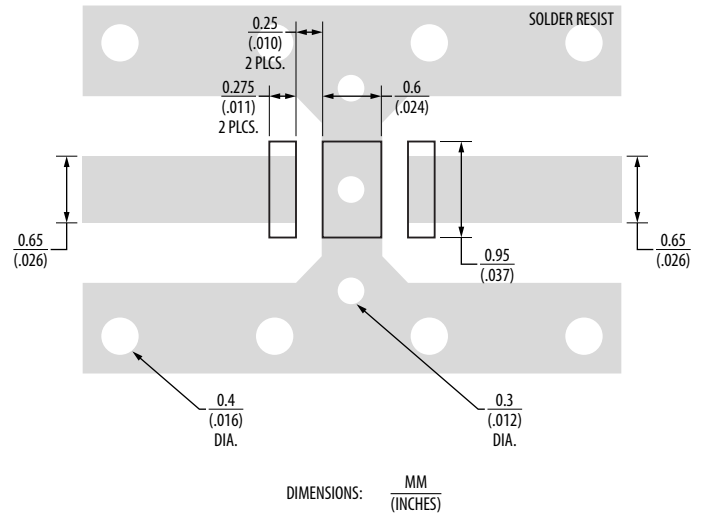
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Product Dimensions

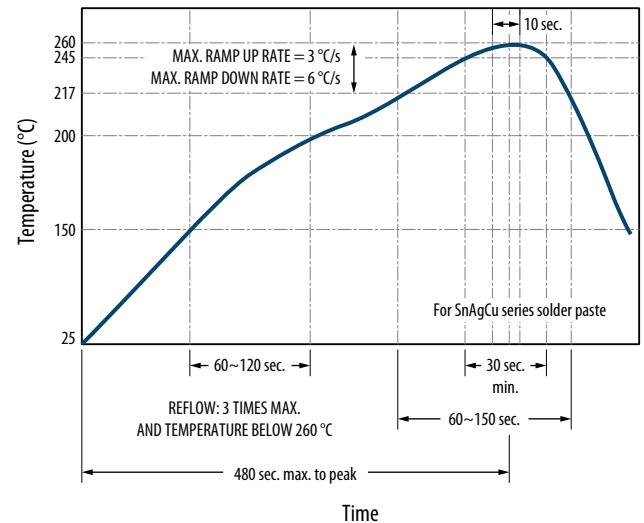


Recommended Land Pattern

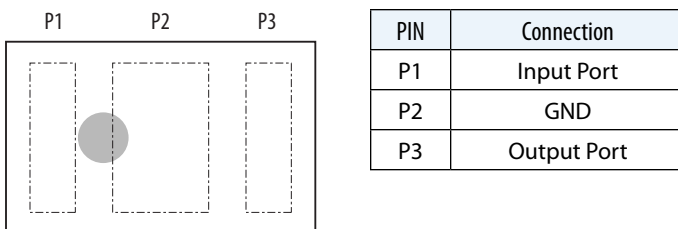


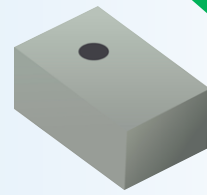
Note:
Line width to be designed to match 50 ohm characteristic impedance, depending on PCB material and thickness.

Soldering Profile

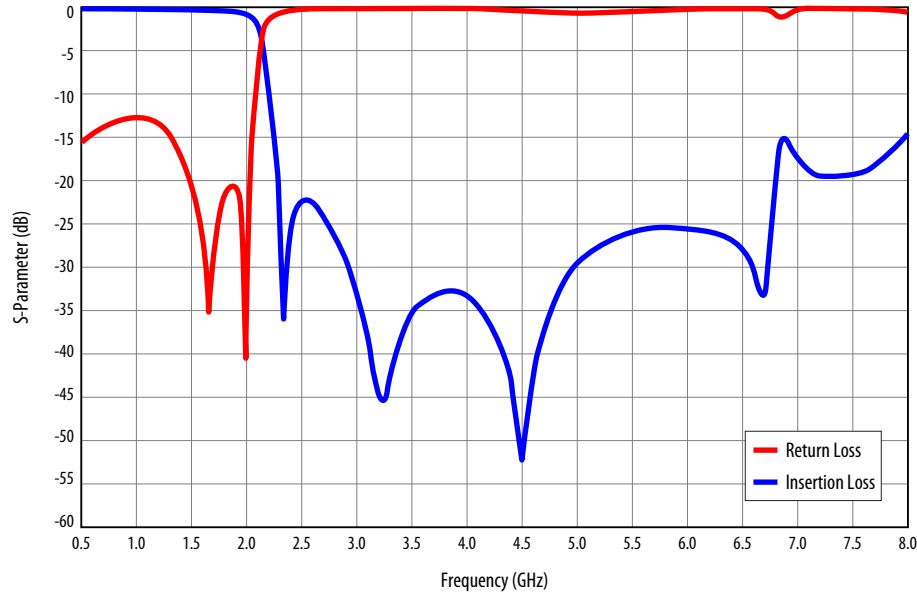


Construction

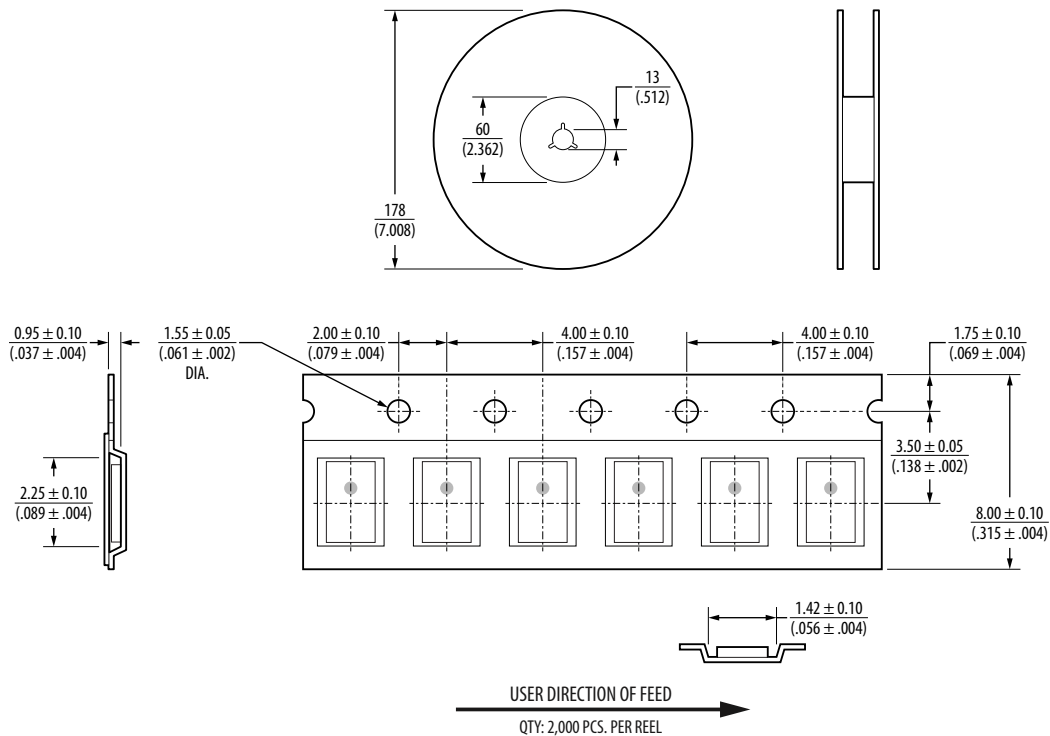




RF Characteristics vs. Frequency



Packaging Information



REV. 07/26

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