

Features

- Low-Temperature Co-fired Ceramic (LTCC)
- Compact size
- Working frequency: 2300-2700 MHz
- RoHS compliant*

Applications

- 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 2300–2700 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	2300 ~ 2700 MHz
Insertion Loss	0.55 dB max. (0.46 dB typ.) at +25 °C 0.65 dB max. at -40 °C ~ +85 °C
Attenuation	35 dB min. (39.9 dB typ.) @ 4600 ~ 5400 MHz 25 dB min. (37.2 dB typ.) @ 6900 ~ 8100 MHz
VSWR	1.7 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 2.7 mg

Materials

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

How to Order

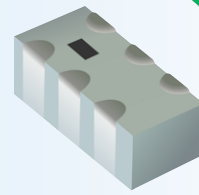
F LP 1608 N 250 D 6

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

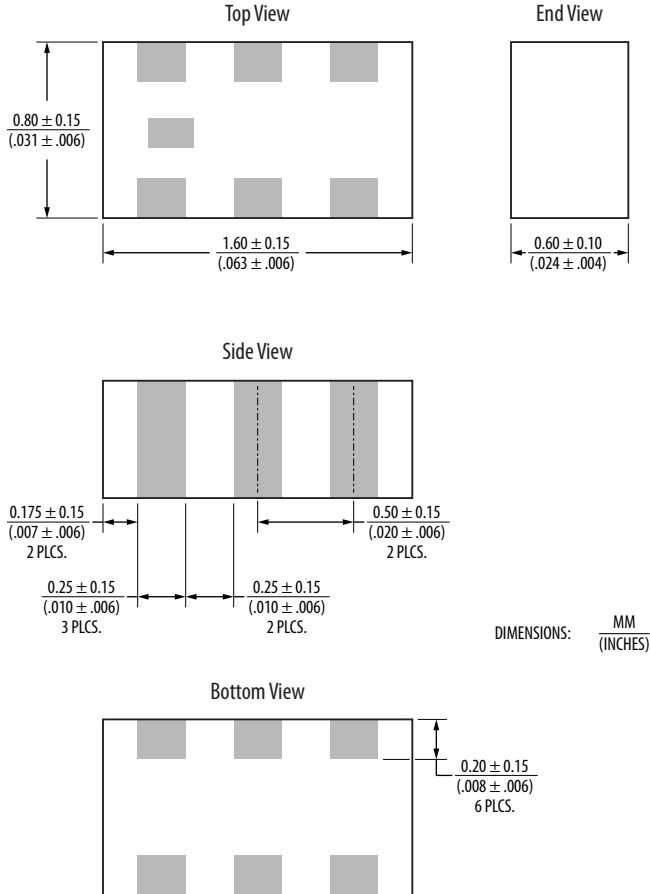
*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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

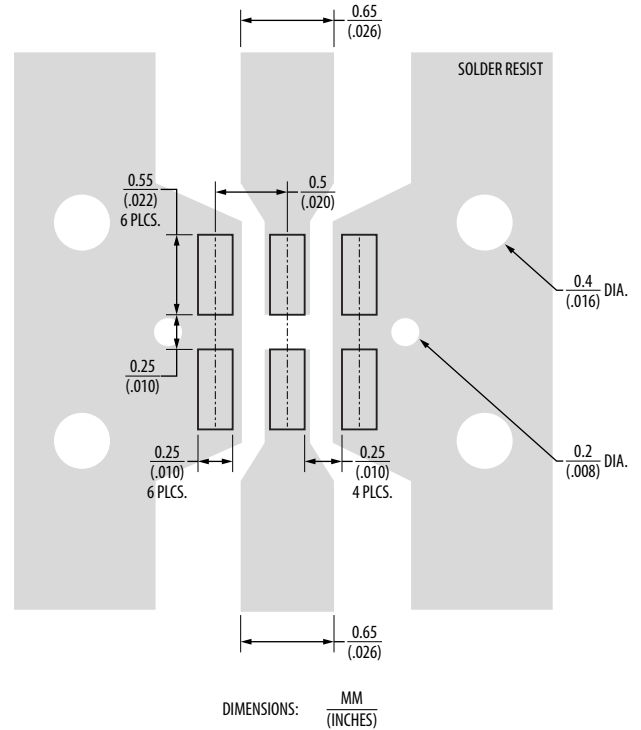
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Product Dimensions



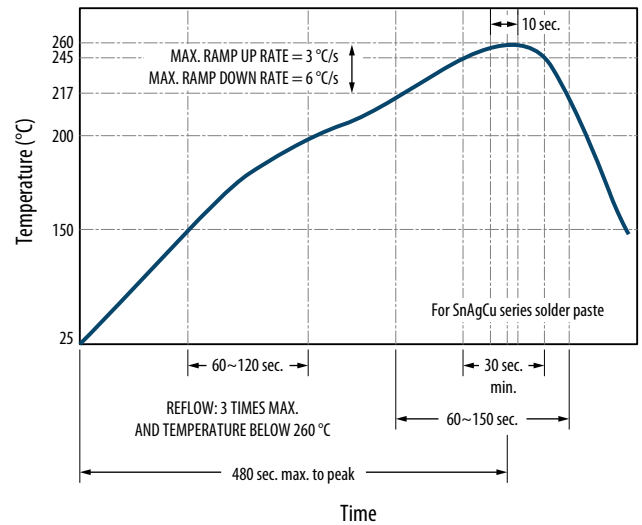
Recommended Land Pattern



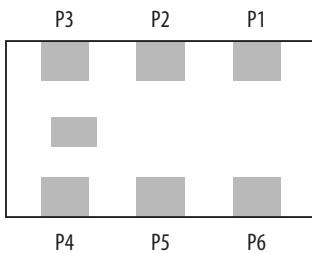
Note:

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

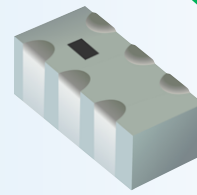
Soldering Profile



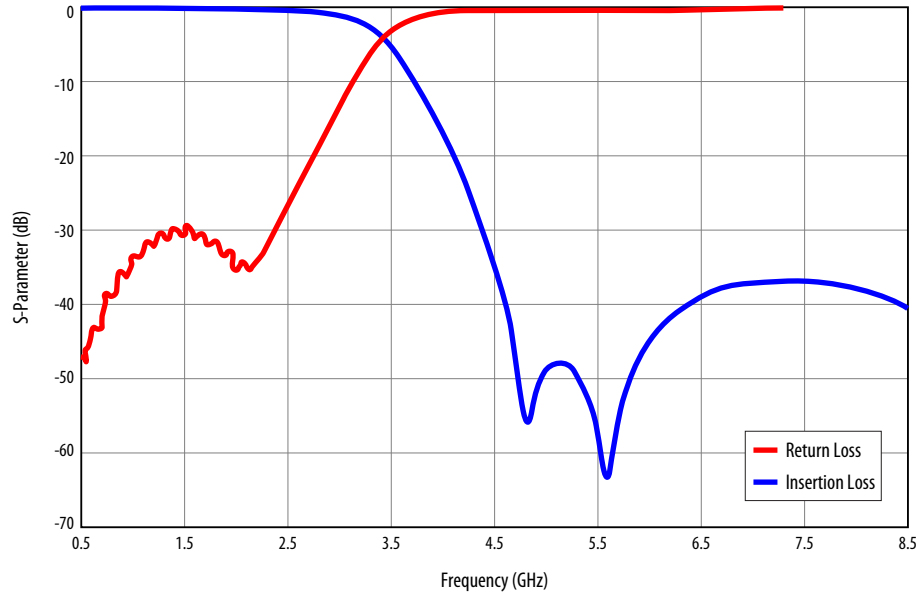
Construction



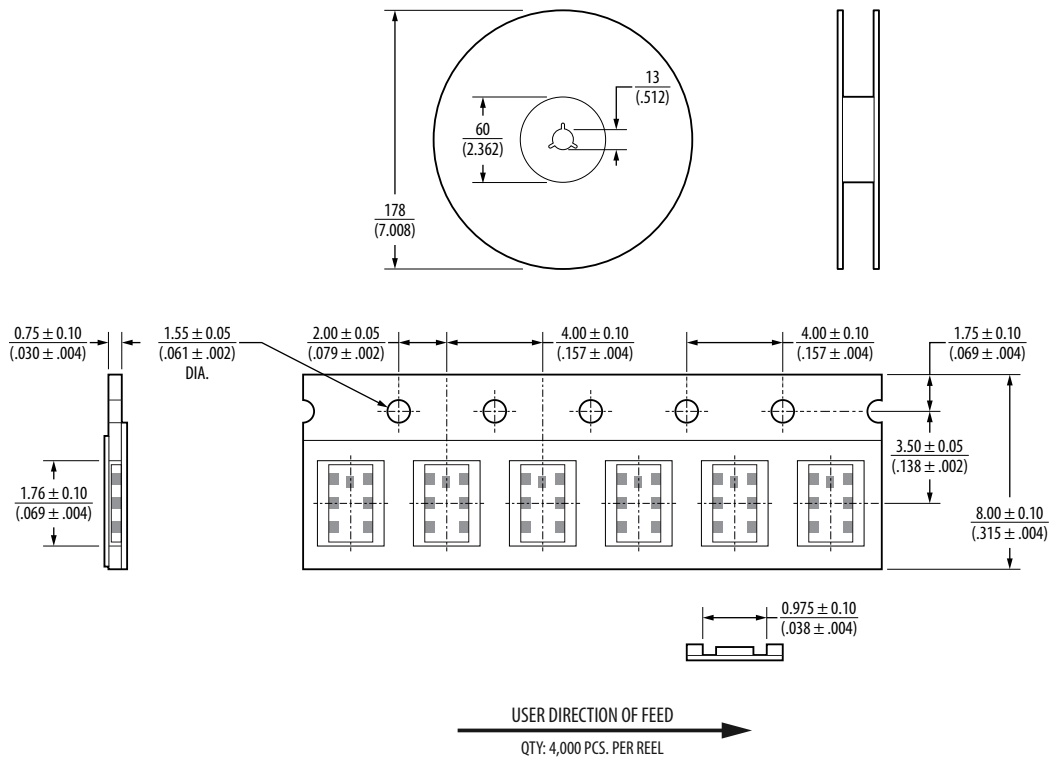
PIN	Connection
P1	GND
P2	Input Port
P3	GND
P4	GND
P5	Output Port
P6	GND



RF Characteristics vs. Frequency



Packaging Information



REV. 07/26

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