

### Features

- Low Temperature Co-fired Ceramic (LTCC)
- Compact size
- Frequency Range: 3300-4200 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 3300–4200 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          | 3300 ~ 4200 MHz                                                                                                                                                                                                                                                                             |
| Insertion Loss           | 1.7 dB max. (1.55 dB typ.) at +25 °C<br>1.9 dB max. -40 °C ~ +85 °C                                                                                                                                                                                                                         |
| Attenuation              | 30.0 dB min. (37.3 dB typ.) @ 100 ~ 2570 MHz<br>35.0 dB min. (42.2 dB typ.) @ 2170 MHz<br>25.0 dB min. (40.3 dB typ.) @ 2620 ~ 2690 MHz<br>20.0 dB min. (22.9 dB typ.) @ 5150 ~ 5950 MHz<br>27.0 dB min. (38.5 dB typ.) @ 6600 ~ 8400 MHz<br>27.0 dB min. (36.4 dB typ.) @ 9900 ~ 12600 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                                                                                                                                                                                                                                                                                  |

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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 ..... 2.5 mg

### Materials

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

### How to Order

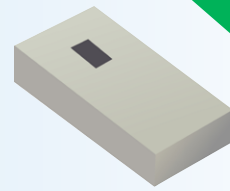
**F B P 1608 N 375 L 3**

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

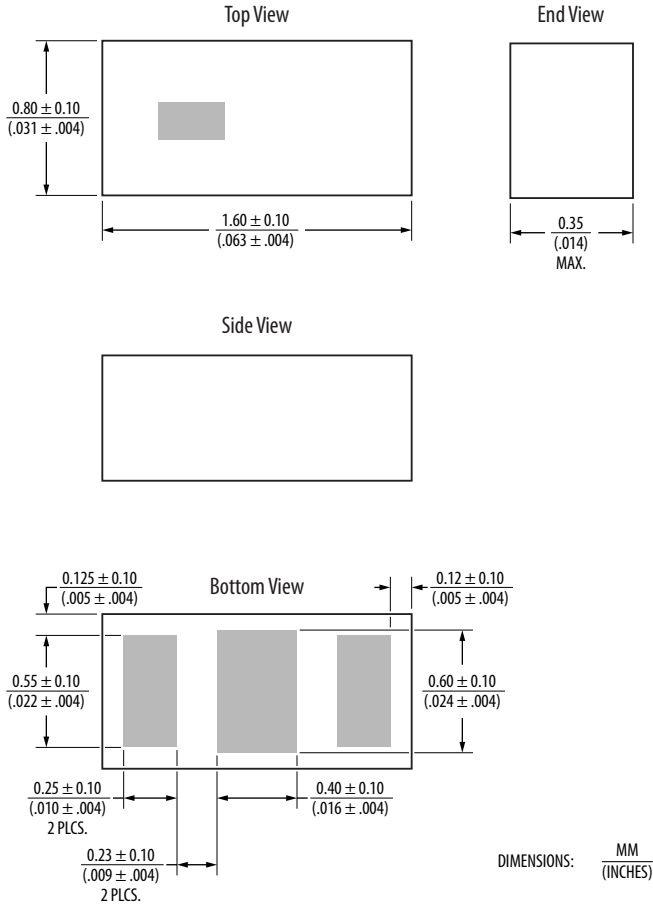
\*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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

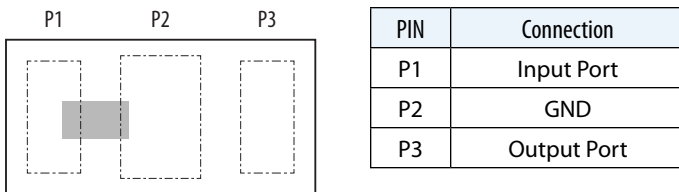
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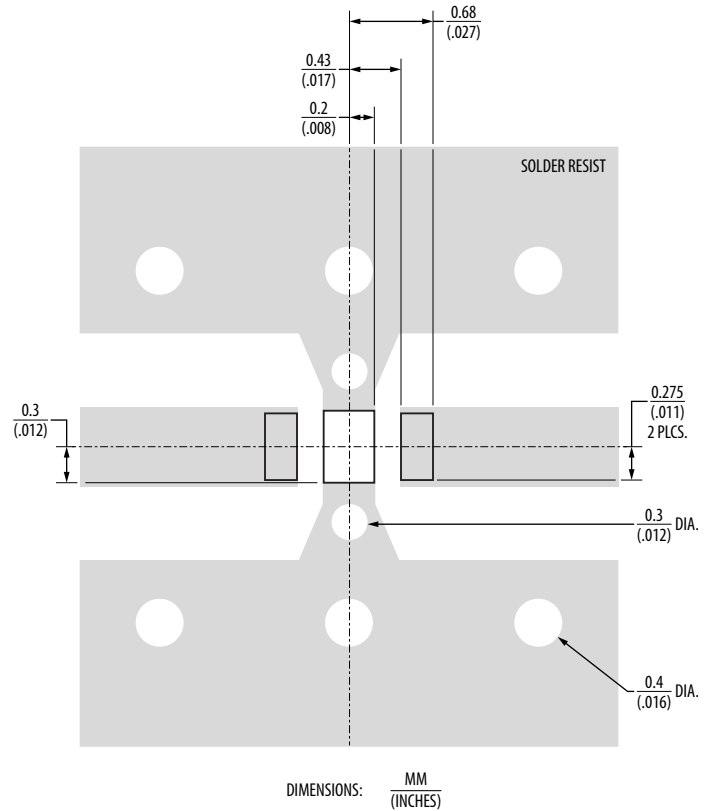
#### Product Dimensions



#### Construction

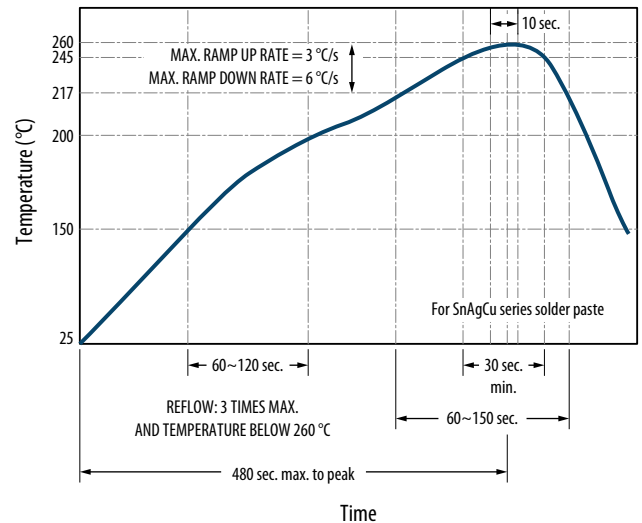


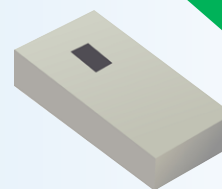
#### Recommended Land Pattern



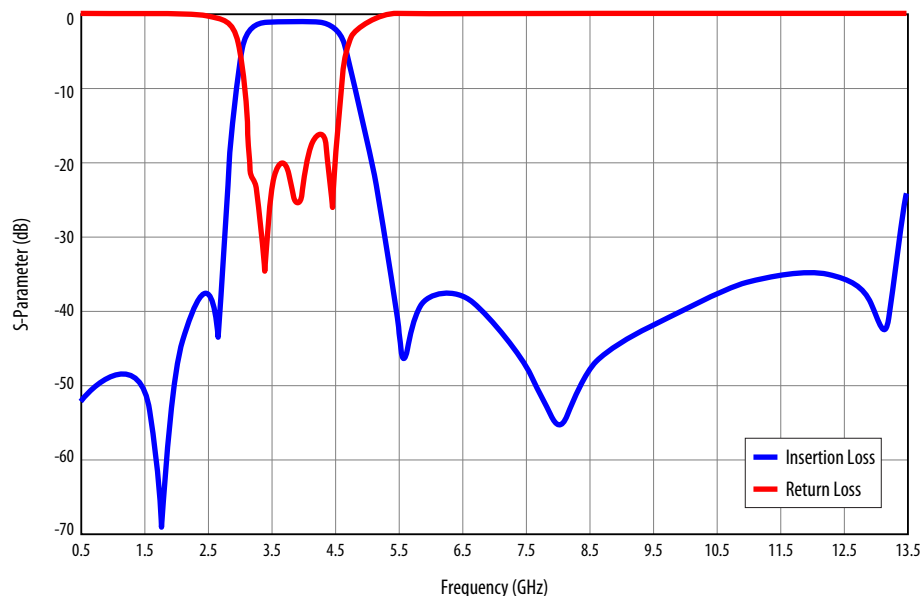
Note:  
 Line width to be designed to match 50 ohm characteristic impedance, depending on PCB material and thickness.

#### Soldering Profile

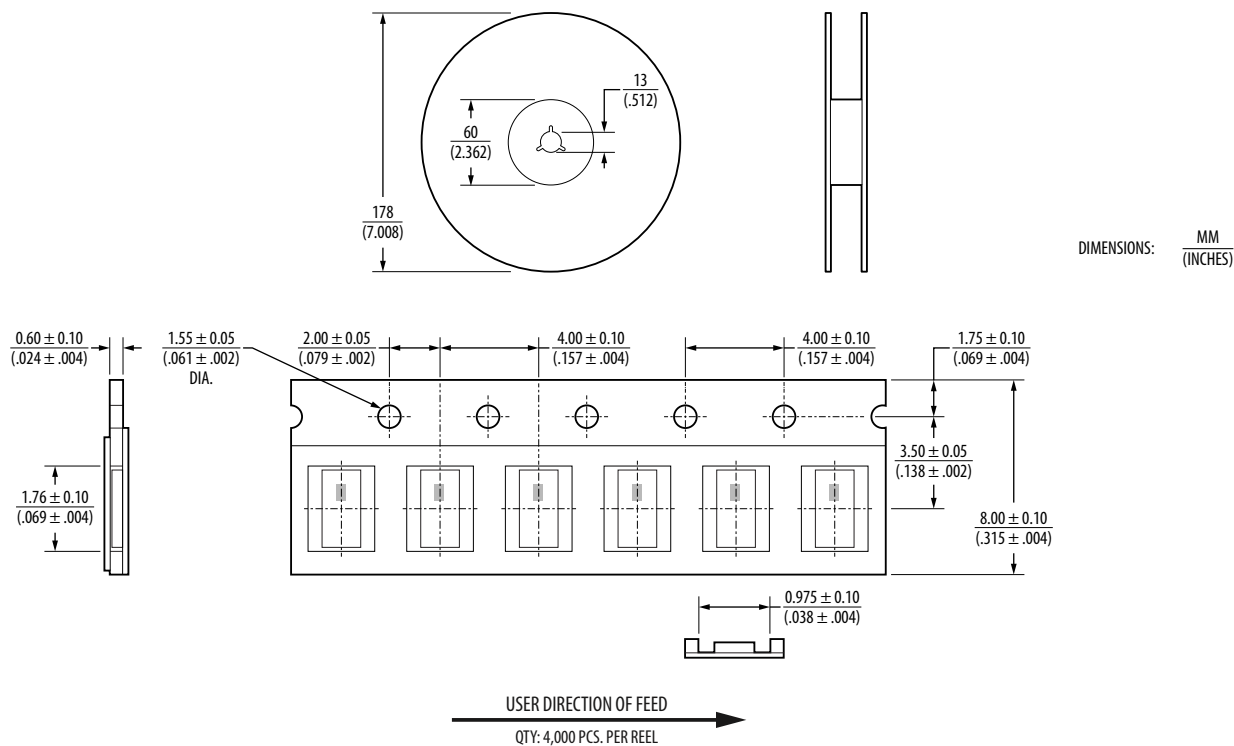




## RF Characteristics vs. Frequency



## Packaging Information



REV. 07/26

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