

Features

- Low Temperature Co-fired Ceramic (LTCC)
- Compact size
- Frequency Range: 4400-5000 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 4400–5000 MHz frequency range and supports an operating temperature range from -40 °C to +105 °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	4400 ~ 5000 MHz
Insertion Loss	0.9 dB max. (0.84 dB typ.) at 25 °C 1.1 dB max. at -40 ~ +105 °C
Attenuation	30 dB min. (41 dB typ.) @ 500 ~ 2690 MHz 15 dB min. (21.2 dB typ.) @ 2700 ~ 3800 MHz 15 dB min. (41.8 dB typ.) @ 8800 ~ 10000 MHz 15 dB min. (27.9 dB typ.) @ 13200 ~ 15000 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

www.bourns.com	Phone	Email
Asia-Pacific	+886-2 2562-4117	asiacus@bourns.com
Europe	+36 88 885 877	eurocus@bourns.com
Mexico	+52 614 478 0400	mexicus@bourns.com
The Americas	+1-951 781-5500	americus@bourns.com

General Specifications

Operating Temperature: -40 °C to +105 °C
Storage Temperature -40 °C to +105 °C
Moisture Sensitivity Level..... 1
Weight 5.4 mg

Materials

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

How to Order

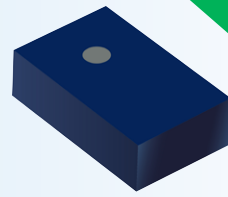
F B P 2007 N 470 L 3

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

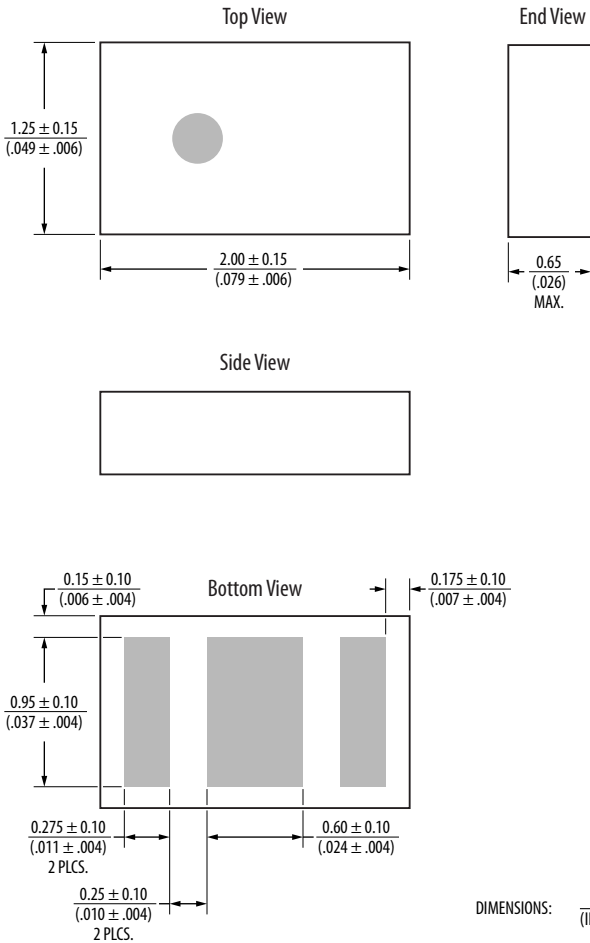
*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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

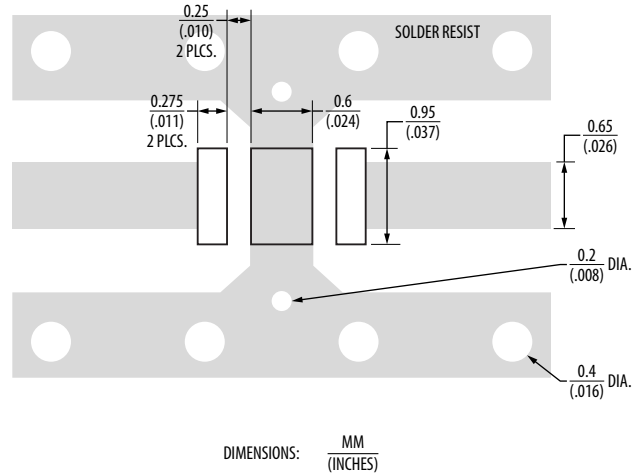
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Product Dimensions



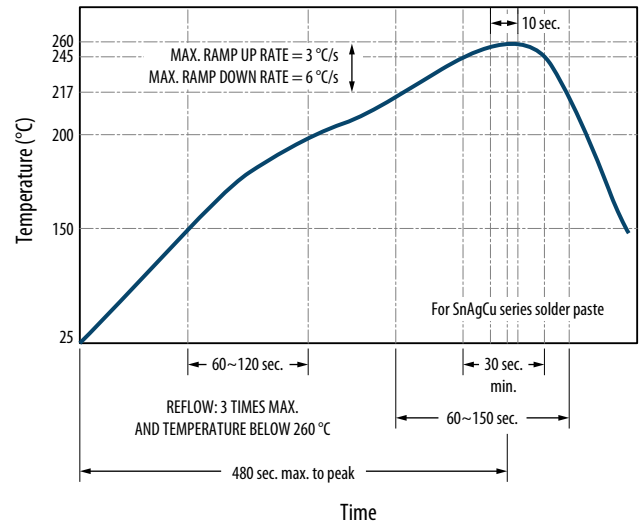
Recommended Land Pattern



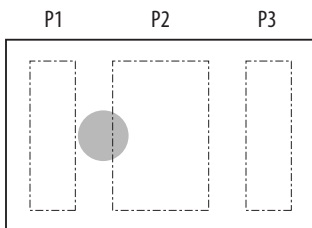
Note:

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

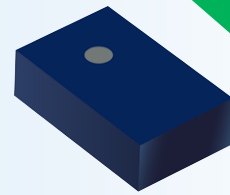
Soldering Profile



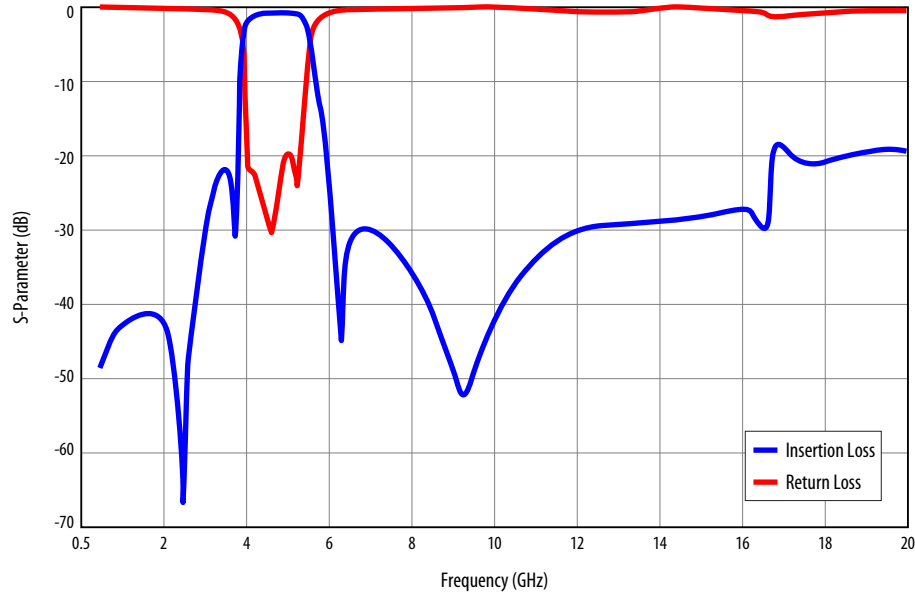
Construction



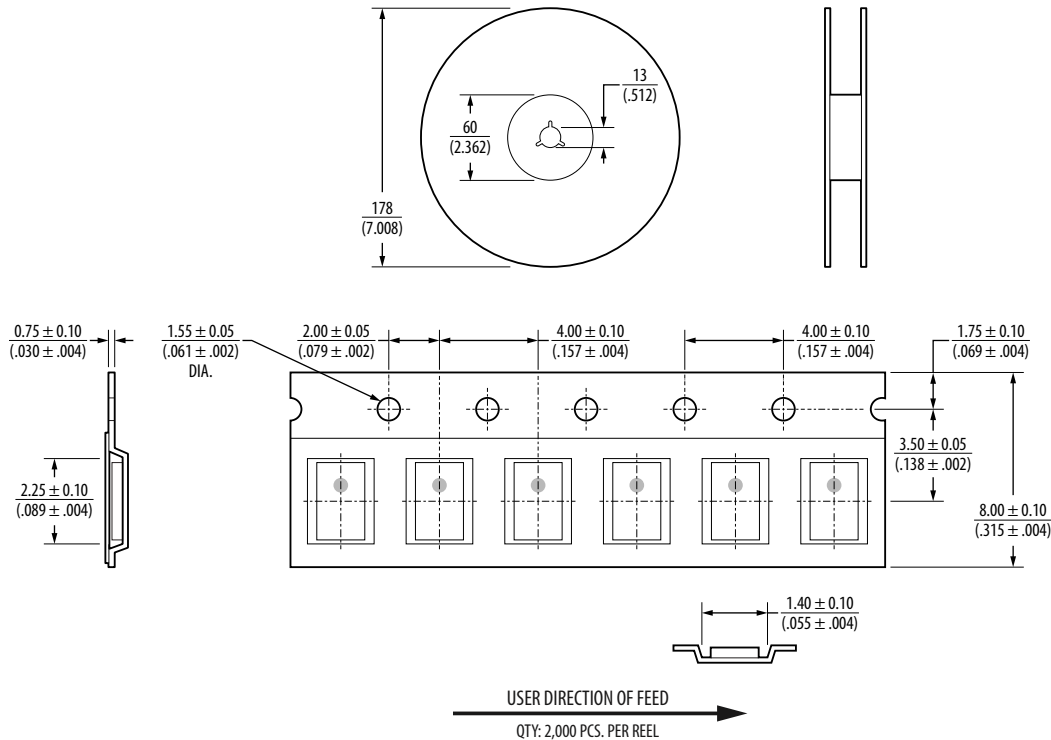
PIN	Connection
P1	Input Port
P2	GND
P3	Output Port



RF Characteristics vs. Frequency



Packaging Information



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

REV. 07/26

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