

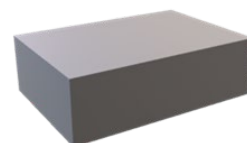
- **Complies with Directive 2002/95/EC (RoHS)**
- **Moisture Sensitivity Level: 1**
- **AEC-Q200 Qualified**

Absolute Maximum Ratings

Rating	Value	Units
Operating Temperature Range	-40 to +85	°C
Storage Temperature Range	-40 to +85	°C
Impedance	50	Ohm
Case Style: SM1608-6, 1.6 x 0.8 mm Nominal Footprint		

CF1005

**2450/5425 MHz
LTCC Filter**



SM1608-6

Electrical Characteristics

Low Band

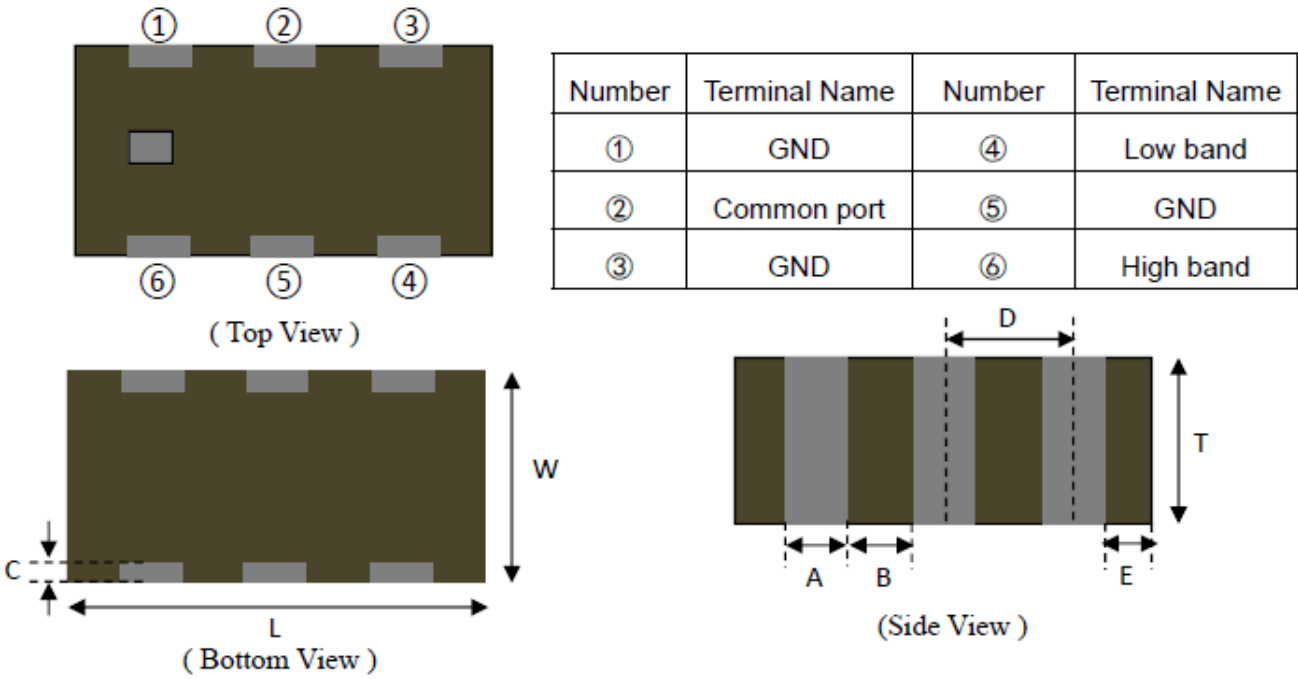
Frequency Range	2400 ~ 2500 MHz
Insertion Loss	≤0.9 dB
Return Loss (in BW)	≥13 dB (2400 ~ 2500 MHz)
Attenuation	≥17 dB(700 ~ 1300 MHz) ≥25 dB(4800 ~ 5000 MHz) ≥27 dB(7200 ~ 7500 MHz)
In/Output Impedance	50Ω

Electrical Characteristics

High Band

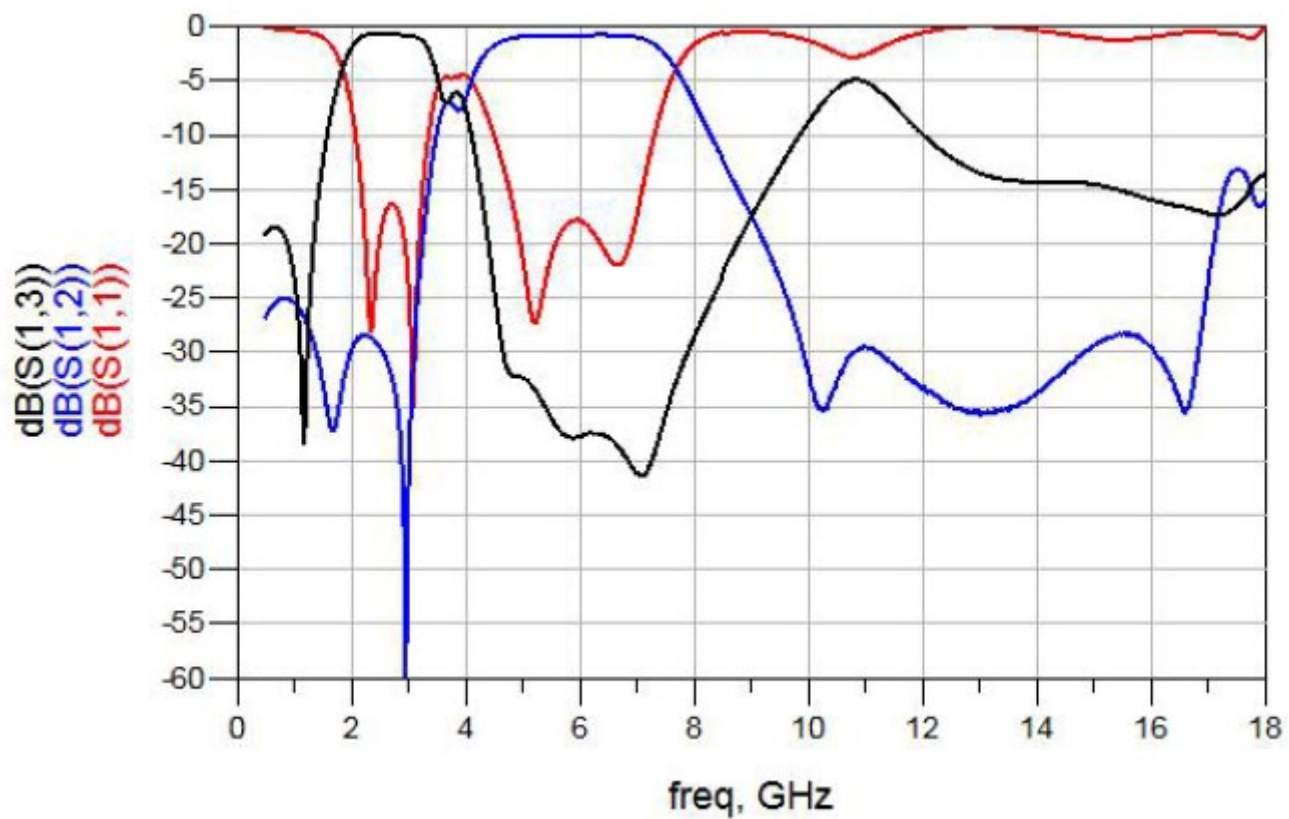
Parameters	Specifications
Frequency Range	4900 ~ 5950 MHz
Insertion Loss	≤ 1.1 dB
Return Loss (in BW)	≥ 13 dB (4900 ~ 5950 MHz)
Attenuation	≥ 25 dB(1200 ~ 1500 MHz) ≥ 26 dB(1600 ~ 2000 MHz) ≥ 25 dB(2300 ~ 3000 MHz) ≥ 28 dB(10000 ~ 12000 MHz) ≥ 20 dB(15000 ~ 16500 MHz) ≥ 10 dB(16500 ~ 18000 MHz)
In/Output Impedance	50 Ω

Outline Drawing

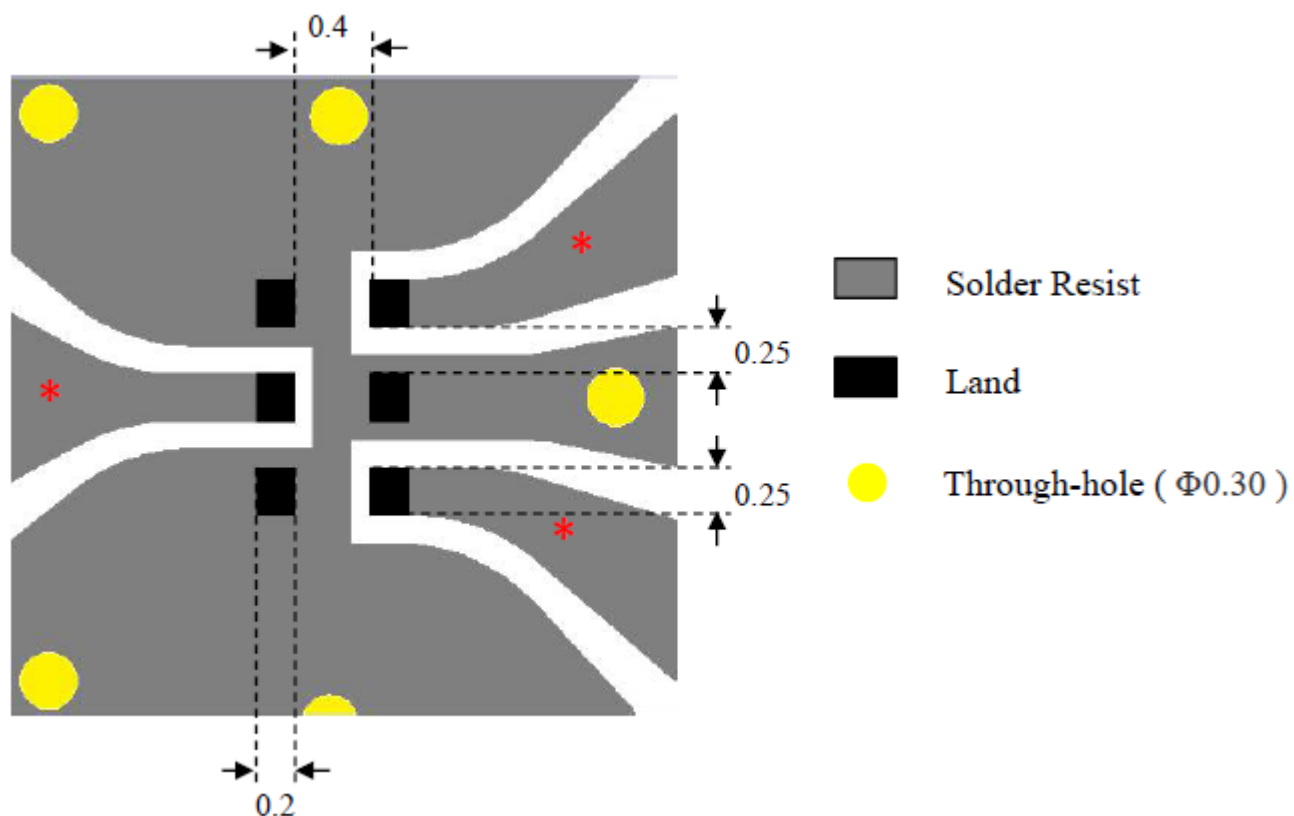


Symbols	L	W	T	A	B	C	D	E
Dimensions	1.6+/-0.2	0.8+/-0.2	0.6+/-0.2	0.25+/-0.1	0.25+/-0.1	0.2+/-0.1	0.5+/-0.1	0.175+/-0.1

Frequency Characteristics



PCB Footprint



Unit: mm

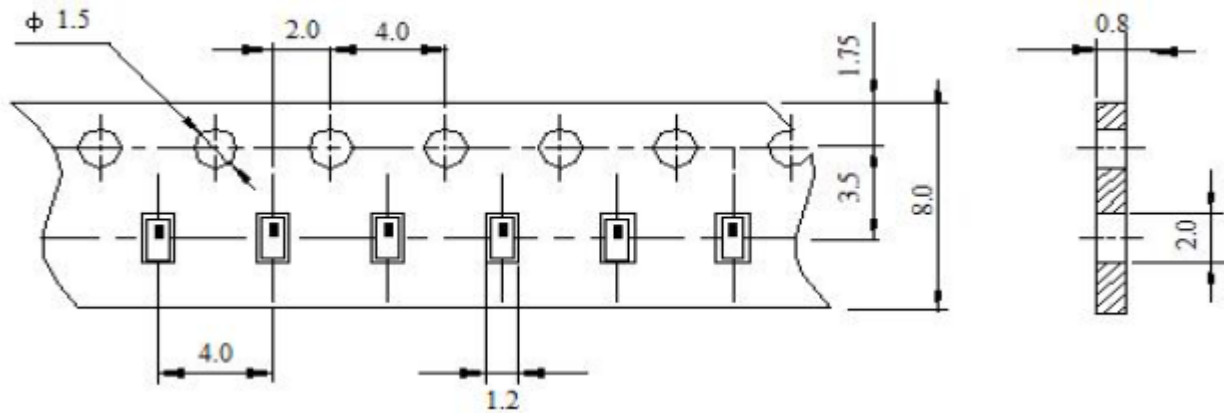
Line width should be designed to match 50 Ω characteristic impedance , depending on PCB material and thickness.

Packing

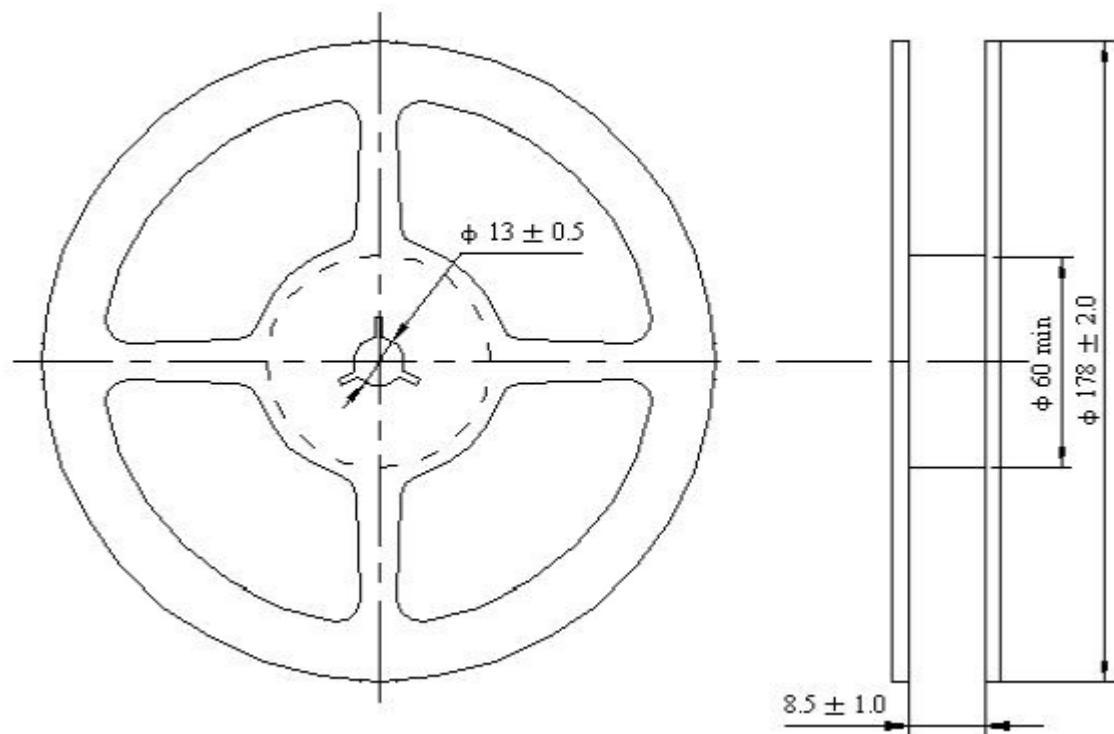
Tape Dimension

Tape and Reel Standard per ANSI/EIA-481

Reel Count:
7" = 2000
13" = 10,000

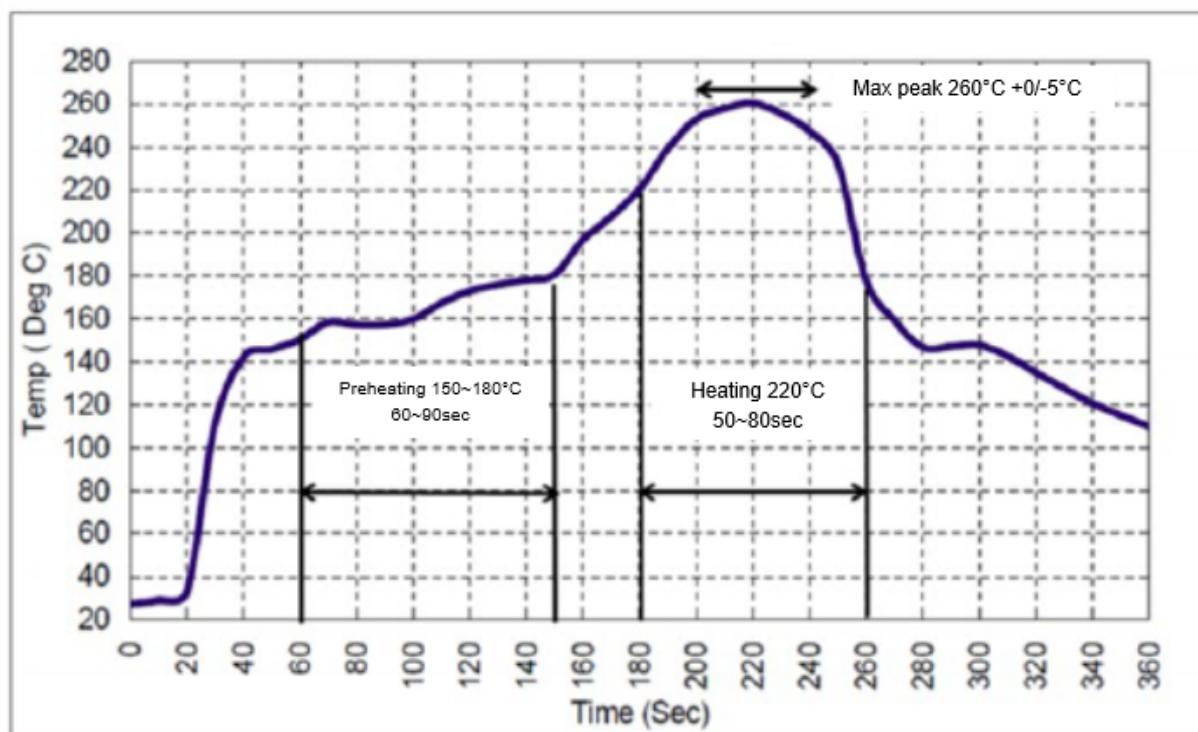


Reel Dimension



Recommended Reflow Profile

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (10 seconds).



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. This component was always RoHS compliant from the first date of manufacture.