

CF1028

Maximum Rating:

- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- Input Power Level: 30 dBm, CW
- Moisture Sensitivity Level: Level (MSL1)
- AEC-Q200 compliant

**2029 / 5425 MHz
LTCC Diplexer**

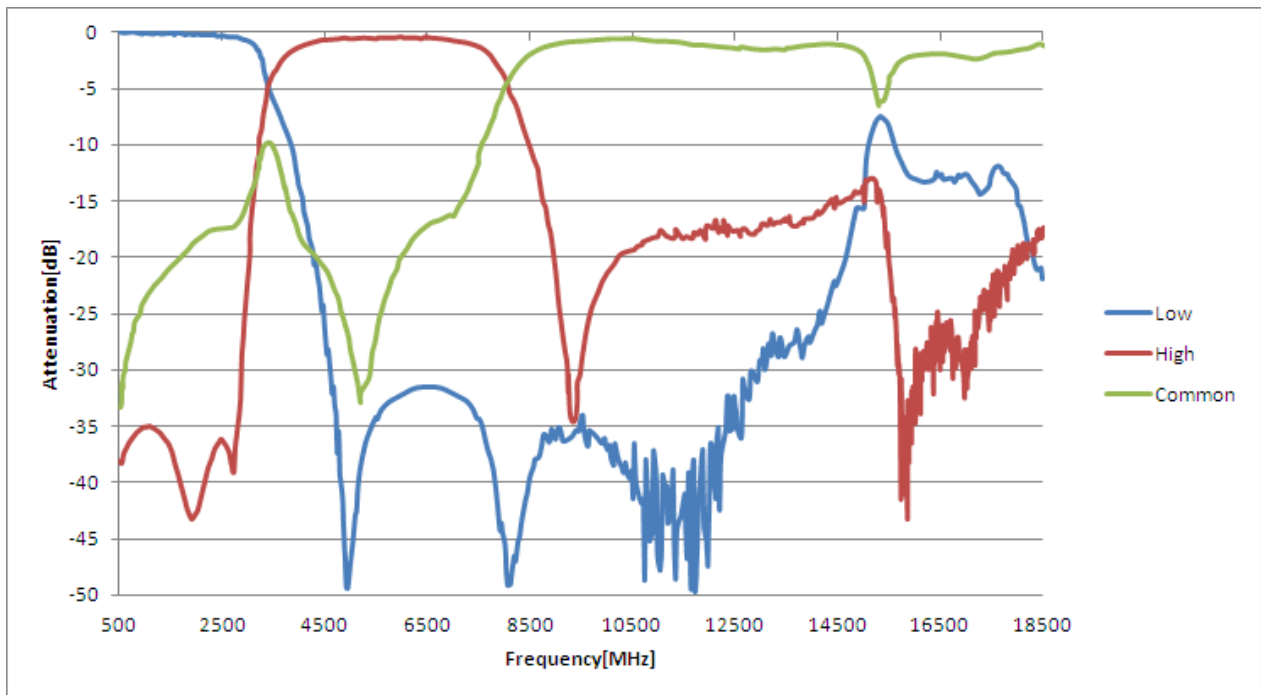
**Package
Dimensions
1.6 x 0.8 mm**

Electrical Characteristics:

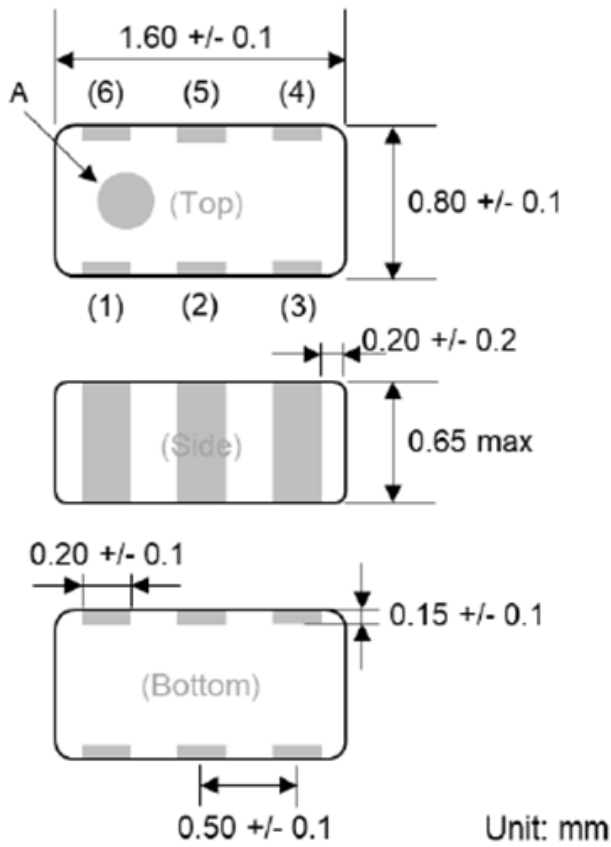
| Item | | Unit | Min | Typ | Max | Note |
|----------------|---------------|------|-----|------|------|----------------|
| Insertion Loss | 1558~1610 MHz | dB | - | 0.28 | - | 25°C |
| | | dB | - | - | 0.50 | -40°C to +85°C |
| | 2400~2500 MHz | dB | - | 0.44 | - | 25°C |
| | | dB | - | - | 0.60 | -40°C to +85°C |
| VSWR | 1558~2500 MHz | - | - | 1.3 | 2.0 | |
| Attenuation | 4800~4900 MHz | dB | 24 | 36.8 | - | |
| | 4900~6000 MHz | dB | 26 | 32.3 | - | |

| Item | | Unit | Min | Typ | Max | Note |
|----------------|-----------------|------|-----|------|------|----------------|
| Insertion Loss | 4900~5950 MHz | dB | - | 0.45 | - | 25°C |
| | | dB | - | - | 0.80 | -40°C to +85°C |
| VSWR | 4900~5950 MHz | - | - | 1.2 | 2.0 | |
| Attenuation | 30~2700 MHz | dB | 32 | 34.7 | - | |
| | 9800~11900 MHz | dB | - | 17.4 | - | |
| | 14700~17850 MHz | dB | - | 12.8 | - | |

Frequency Characteristics:

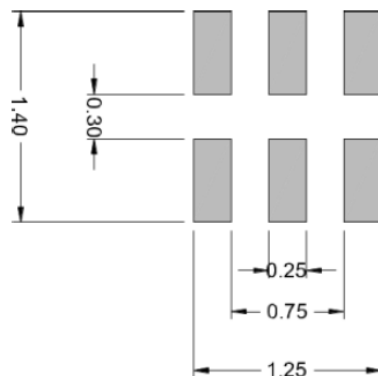


Outline Drawing:



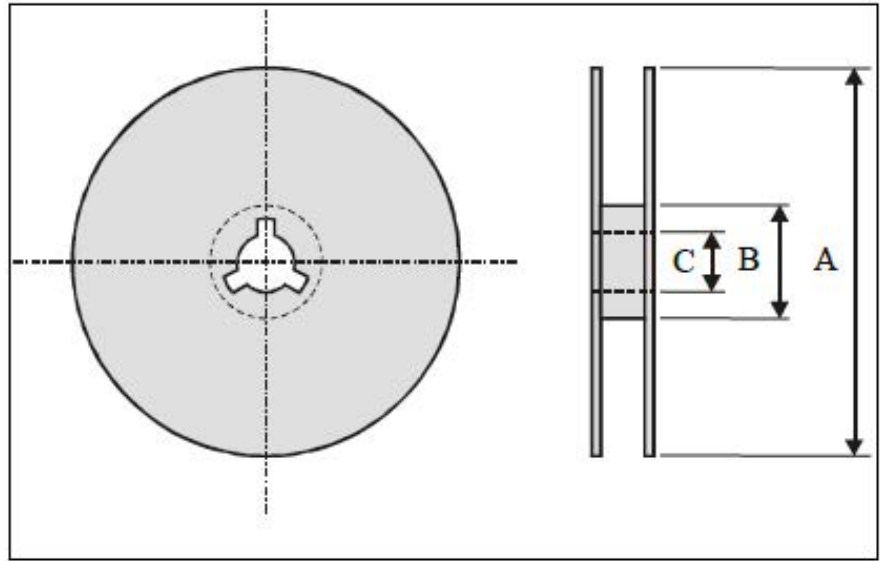
| Terminal | |
|----------|-----------|
| ① | GND |
| ② | Common |
| ③ | GND |
| ④ | Low Band |
| ⑤ | GND |
| ⑥ | High Band |

PCB Footprint:



- (1) Metal mask thickness ; 0.08 mm
- (2) Metal opening ratio ; 100% of land pattern

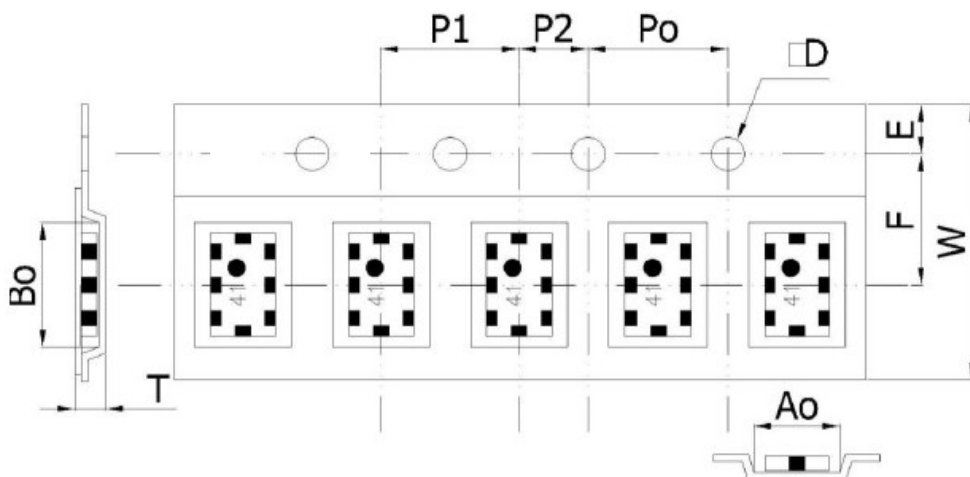
Packing



| Index | A | B | C |
|----------------|------|-------|-------|
| Dimension (mm) | Φ178 | Φ60.0 | Φ13.5 |

Taping Quantity: 4000 pieces per 7" reel

2.Tape Dimension

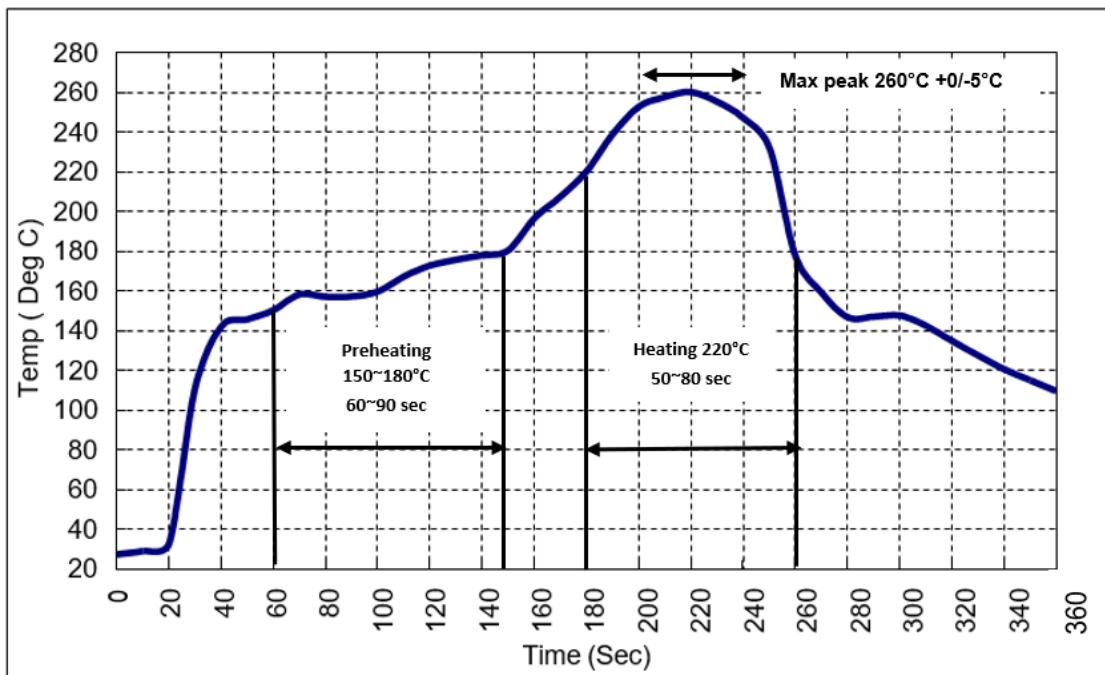


Plastic Tape specifications (unit :mm)

| | | | | | |
|----------------|----------------|----------------|----------------|----------------|----------------|
| Index | A ₀ | B ₀ | ΦD | T | W |
| Dimension (mm) | 1.30 ± 0.10 | 2.25 ± 0.10 | 1.55 ± 0.05 | 1.10 ± 0.10 | 8.00 ± 0.10 |
| Index | E | F | P ₀ | P ₁ | P ₂ |
| Dimension (mm) | 1.75 ± 0.10 | 3.50 ± 0.05 | 4.00 ± 0.10 | 4.00 ± 0.10 | 2.00 ± 0.05 |

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).
4. Time: 2 times maximum.



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. RoHS compliant from the first date of manufacture.