

Features

- Miniature Footprint
- Low Insertion Loss
- High Rejection Rate
- LTCC Process

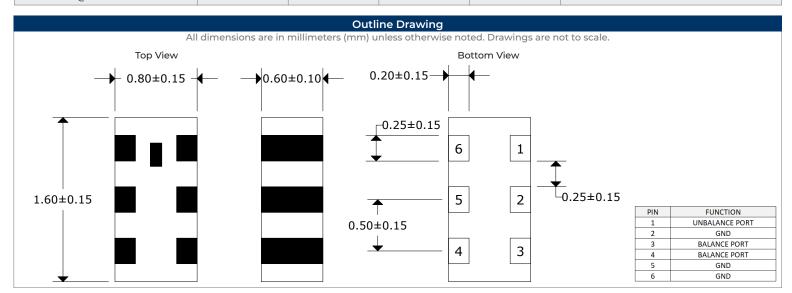
Applications

- ISM 2.4GHz
- Bluetooth
- Wireless LAN
- HomeRF





| Electrical Parameters | Units | Minimum | Typical | Maximum | Remarks |
|-----------------------------|-------|---------|---------|---------|---------|
| Frequency | MHz | 2400 | | 2500 | |
| Insertion Loss @ 25°C | dB | | | 1.6 | |
| Insertion Loss @ -40°~105°C | dB | | | 1.8 | |
| VSWR | | | | 2.4 | |
| Impedance (Unbalanced) | Ω | | 50 | | |
| Amplitude Difference | dB | | | 2.3 | |
| Power Capacity | W | | | 2 | |
| Phase Difference | 0 | 162 | 180 | 198 | |
| Operating Temperature Range | °C | -40 | | 85 | |
| Storage Temperature Range | °C | -40 | | 85 | |
| Attenuation @ 4800~5000MHz | dB | 25 | | | |
| Attenuation @ 7200~7500MHz | dB | 25 | | | |

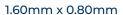


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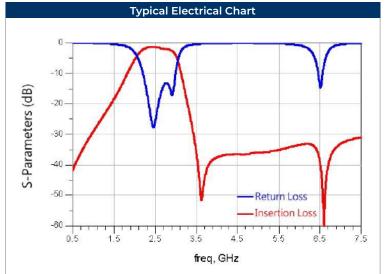
Specifications are subject to change without notice.

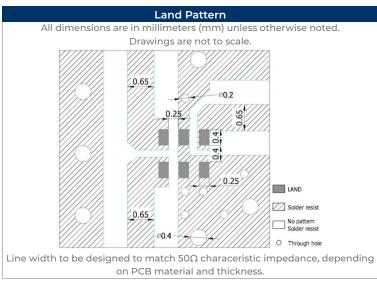
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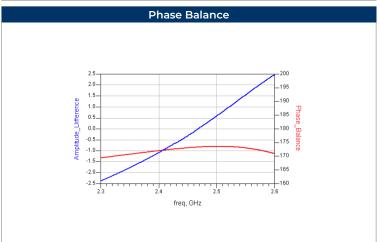
142 TECHNOLOGY DR., SUITE 150 IRVINE, CA 92618

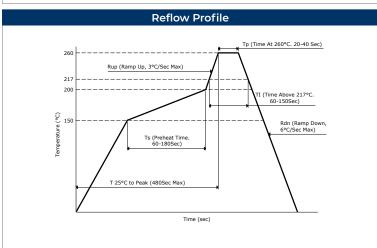


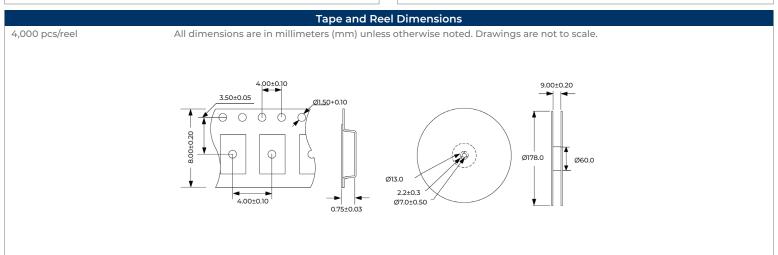














| Reliability Test | | | | | | |
|--|--|--|--|--|--|--|
| Test Item | Test Conditions/Test Method | Specification | | | | |
| Solderability JIS C 0050-4.6 JESD22-B102D | *Solder bath temperature : 235±5°C *Immersion time : 2±0.5 sec Solder : Sn3Ag0.5Cu for lead-free | At least 95% of a surface of each terminal electrode must be covered by fresh solder. | | | | |
| Leaching (Resistance to dissolution of metallization) IEC 60068-2-58 | *Solder bath temperature : 260±5°C *Leaching immersion time : 30±0.5 sec Solder : SN63A | Loss of metallization on the edges of each electrode shall not exceed 25% | | | | |
| Resistance to soldering heat JIS C 0050-5.4 | *Preheating temperature: 120~150°C, 1 minute *Solder temperature: 270±5°C *Immersion time: 10±1 sec Solder: Sn3Ag 0.5Cu for lead-free Measurement to be made after keeping at room temperature for 24±2 hrs. | No mechanical damage. Eletrical specification shall satisfy the descriptions in electrical characteristics under the operational temperature ranger within -40~85°C. Loss of metallization on the edges of each electrode shall not exceed 25% | | | | |
| Drop Test JIS C 0044 | *Height: 75 cm *Test surface: Rigid surface of concrete or steel. *Times: 6 surfaces for each unit; 2 times each side. | No mechanical damage. Electrical specification shall satisfy the description in electrical characteristics under the operational temperature range within -40~85°C. | | | | |
| Vibration JIS C 0040 | *Frequency: 10Hz~55Hz~10Hz (1 min) *Total amplitude: 1.5mm *Test times: 6hrs (two hrs each in three mutually perpendicular directions) | No mechanical damage. Eletrical specification shall satisfy the descriptions in electrical characteristics under the operational temperature range within -40~85°C. | | | | |
| Adhesive Strength of Termination JIS C 0051-7.4.3 | *Pressurizing force : 5N(≤603) ; 10N(>0603) *Test time : 10±1 sec | No remarkable damage or removal of the termination | | | | |
| Bending Test JIS C 0051-7.4.1 | The middle part of substrate shall be pressurized by means of the pressurizing rod at a rate of about 1mm/s per second until the deflection becomes 1mm/s and then pressure shall be maintained for 5±1 sec. Measurement to be made after keeping at room temperature for 24±2 hours. | No mechanical damage. Eletrical specification shall satisfy the descriptions in electrical characteristics under the operational temperature range within -40~85°C. | | | | |
| Temperature Cycle JIS C 0025 | 1. 30±3 minutes at -40°C±3°C 2. 10~15 minutes at room temperature 3. 30±3 minutes at 85°C±3°C 4. 10~15 minutes at room temperaure Total 100 continuous cycles Measurement to be made after keeping at room temperature for 24±2 hous. | No mechanical damage. Eletrical specification shall satisfy the descriptions in electrical characteristics under the operational temperature range within -40~85°C. | | | | |
| High Temperature JIS C 0021 | *Temperature: 85°C±2°C *Test duration: 1000+24/-0 hours Measurement to be made after keeping at room temperature for 24±2 hours. | No mechanical damage. Eletrical specification shall satisfy the descriptions in electrical characteristics under the operational temperature range within -40~85°C. | | | | |
| Humidity (steady conditions) JIS C 0022 | *Humidity: 90% to 95% Relative Humidity *Temperature: 40°C±2°C *Time: 1000+24/-0 hours Measurement to be made after keeping at room temperature for 24±2 hours. **500hrs measuring the first data then 1000hrs data | No mechanical damage. Eletrical specification shall satisfy the descriptions in electrical characteristics under the operational temperature range within -40~85°C. | | | | |
| Low Temperature JIS C 0020 | *Temperature:-40°C±2°C *Test duration:1000+24/-0 hours Measurement to be made after keeping at room temperature for 24±2 hours. | No mechanical damage. Eletrical specification shall satisfy the descriptions in electrical characteristics under the operational temperature range within -40~85°C. | | | | |

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