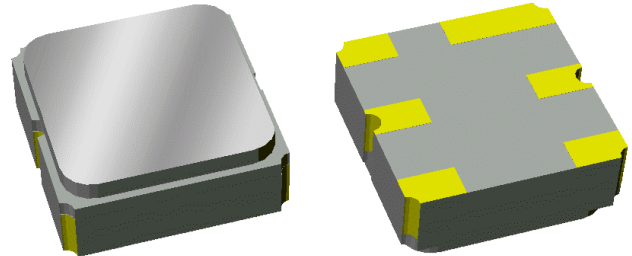


Data Sheet

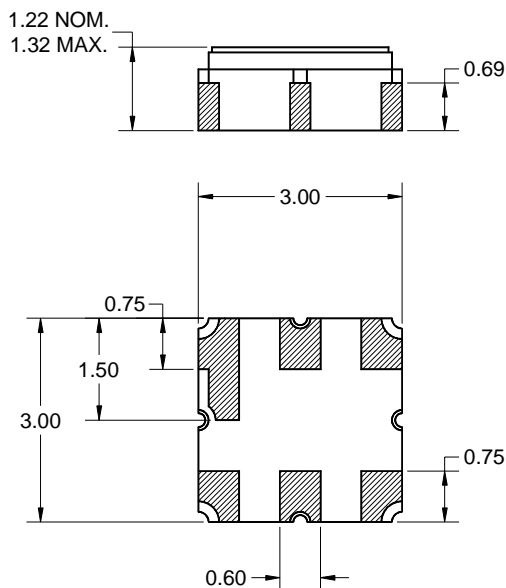
Features

- For AMPS, CDMA and TDMA applications
- Usable bandwidth 25 MHz
- Low loss
- No impedance matching required for operation at 50 Ω
- Single-ended operation
- Ceramic Surface Mount Package (SMP)
- Small size

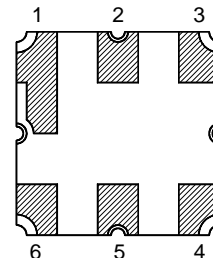


Package

Surface Mount 3.0 x 3.0 x 1.22 mm



Pin Configuration



| Pin No. | Description |
|---------|--------------|
| 2,5 | Input/Output |
| 1,3,4,6 | Case ground |

Dimensions shown are nominal in millimeters
 All tolerances are $\pm 0.15\text{mm}$ except overall
 length and width $\pm 0.10\text{mm}$

Body: Al_2O_3 ceramic
 Lid: Kovar, Ni plated
 Terminations: Au plating 0.5 - 1.0 μm ,
 over a 2 - 6 μm Ni plating

Data Sheet

Electrical Specifications ⁽¹⁾

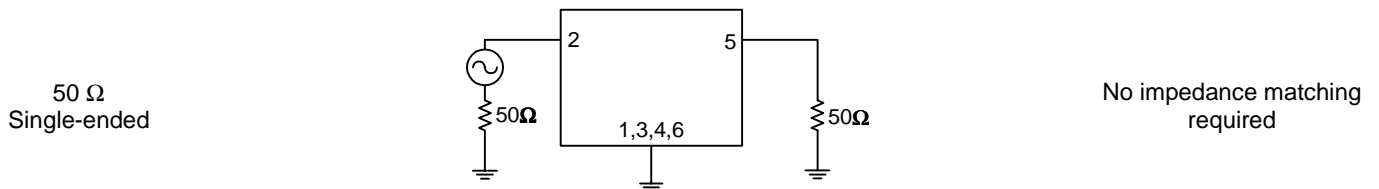
Operating Temperature Range: ⁽²⁾ -40 to +85 °C

| Parameter ⁽³⁾ | Minimum | Typical | Maximum | Unit |
|---|---------|---------|---------|--------|
| Center Frequency | - | 881.5 | - | MHz |
| Maximum Insertion Loss 869 - 894 MHz | - | 1.8 | 3 | dB |
| Amplitude Variation 869 - 894 MHz | - | 0.6 | 1.8 | dB p-p |
| Absolute Attenuation 10 - 800 MHz | 20 | 34 | - | dB |
| 824 - 849 MHz | 35 | 38 | - | dB |
| 978 - 1006 MHz | 25 | 35 | - | dB |
| 1088 - 1119 MHz | 30 | 32 | - | dB |
| 1119 - 2600 MHz | 20 | 30 | - | dB |
| Input/Output Return Loss 869 - 894 MHz | 10 | 12 | - | dB |
| Terminating Source Impedance: ⁽⁴⁾ | - | 50 | - | Ω |
| Terminating Load Impedance: ⁽⁴⁾ | - | 50 | - | Ω |
| Operating Temperature Range | -40 | 25 | +85 | °C |

Notes:

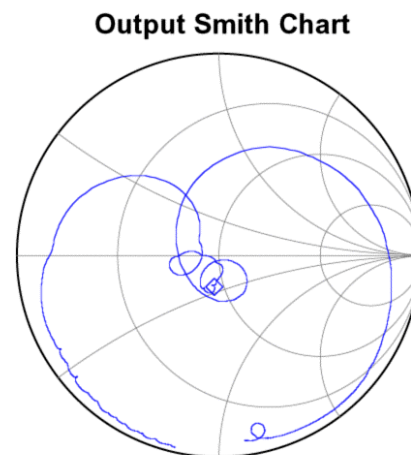
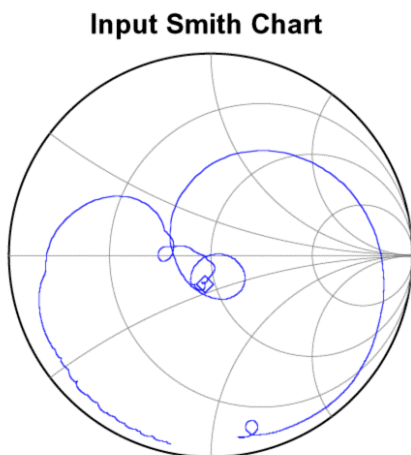
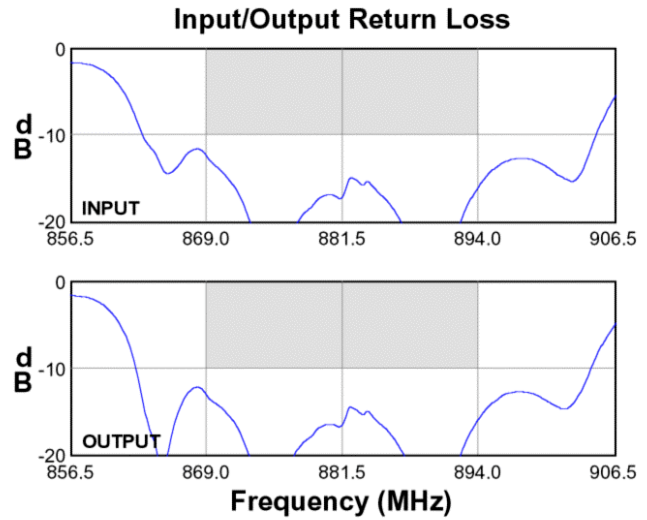
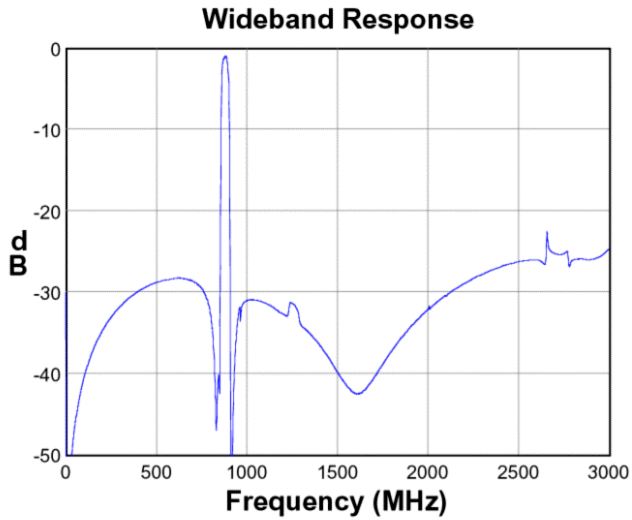
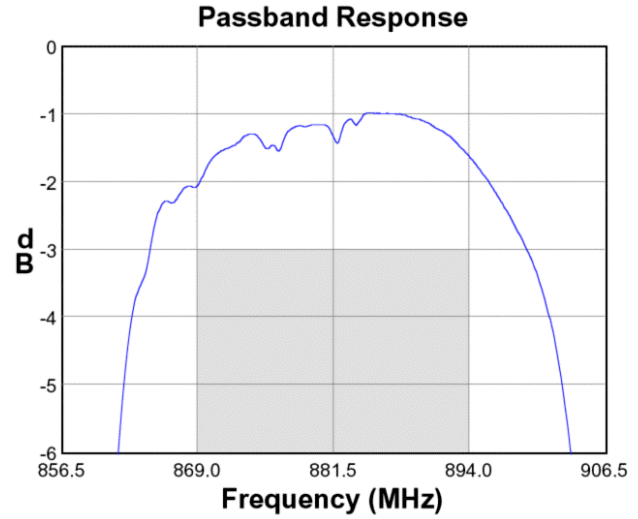
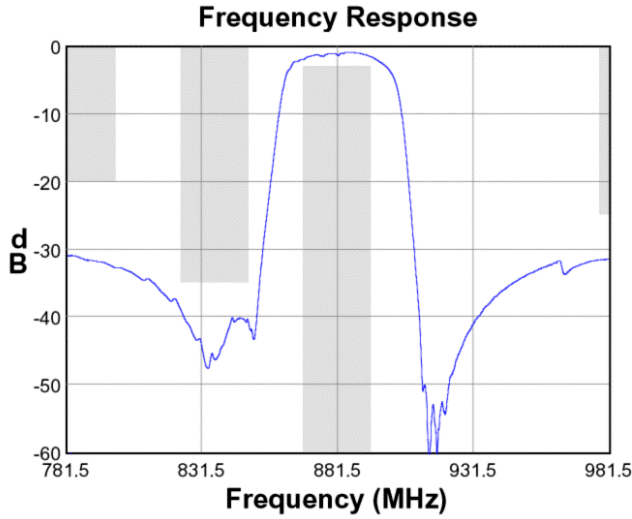
1. All specifications are based on the test circuit shown below
2. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over temperature
3. Electrical margin has been built into the design to account for the variations due to temperature drift and manufacturing tolerances
4. This is the optimum impedance in order to achieve the performance shown

Test Circuit:



Data Sheet

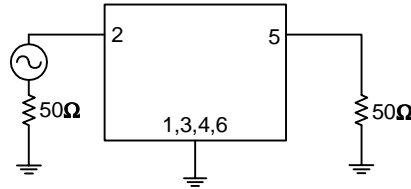
Typical Performance (at +25°C)



Data Sheet

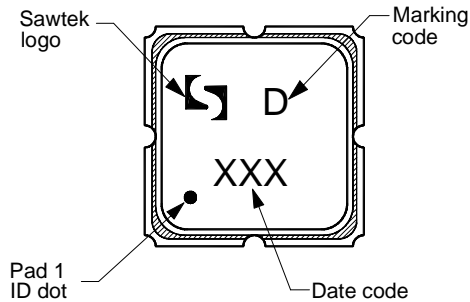
Matching Schematics

50 Ω
Single-ended

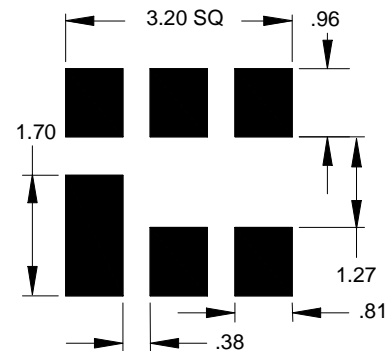


No impedance matching
required

Marking



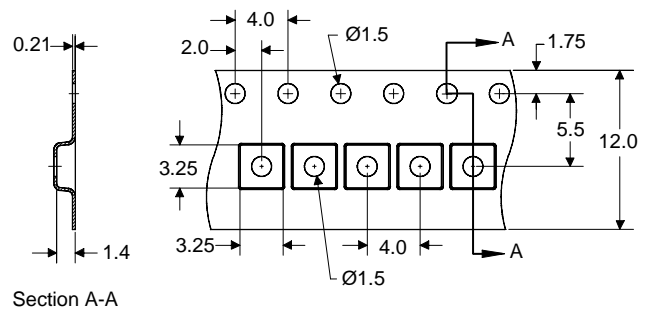
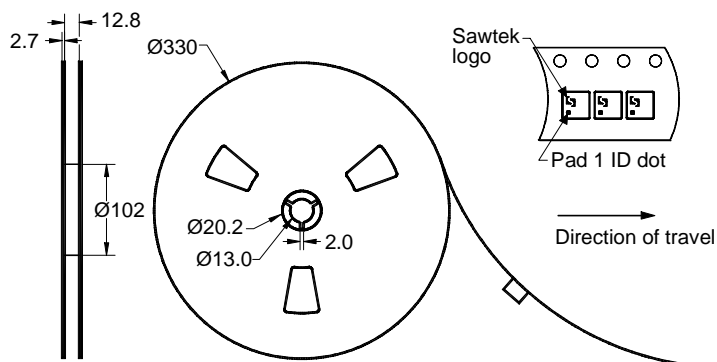
PCB Footprint



Date code is the day of the current year in 3-digit Julian format

This footprint represents a recommendation only
Dimensions shown are nominal in millimeters

Tape and Reel




Dimensions shown are nominal in millimeters
Packaging quantity: 5000 units/reel

Data Sheet

Maximum Ratings

| Parameter | Symbol | Minimum | Maximum | Unit |
|-----------------------------|------------------|---------|---------|------|
| Operating Temperature Range | T | -40 | +85 | °C |
| Storage Temperature Range | T _{stg} | -40 | +85 | °C |
| RF Power | P _{in} | - | +23 | dBm |

Warnings

- Electrostatic Sensitive Device (ESD) 
- Avoid ultrasonic exposure

Links to Additional Technical Information

[PCB Layout Tips](#)

[Qualification Flowchart](#)

[Soldering Profile](#)

[S-Parameters](#)

[Reel and Packaging Label](#)

[Other Technical Information](#)

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[representatives or distributors](#)