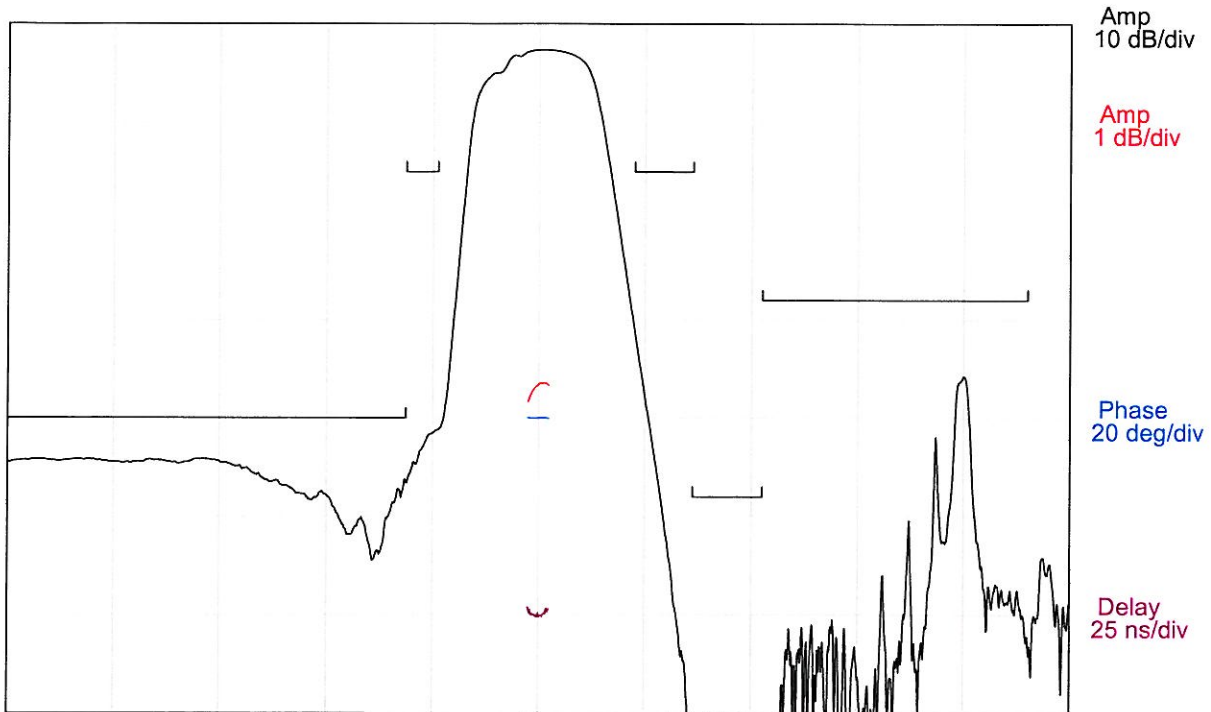


DESCRIPTION

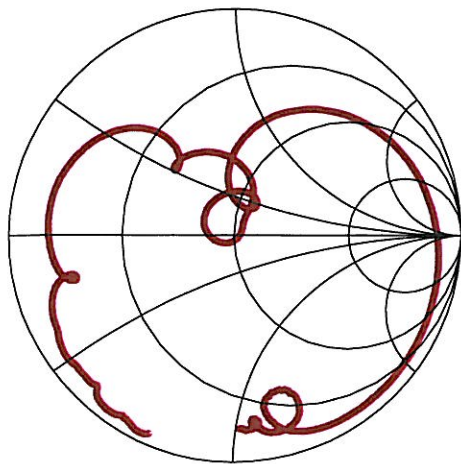
- 869 MHz SAW Filter with 2 MHz bandwidth.
- 3 x 3 mm LCC package, 6 pads.
- RoHS compliant.

TYPICAL PERFORMANCE

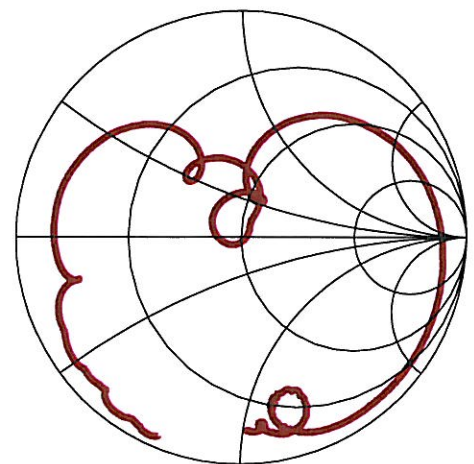


Center = 869 MHz, 10 MHz/div (62.5 kHz incr)

S11 (819-919 MHz)



S22 (819-919 MHz)



SPECIFICATION

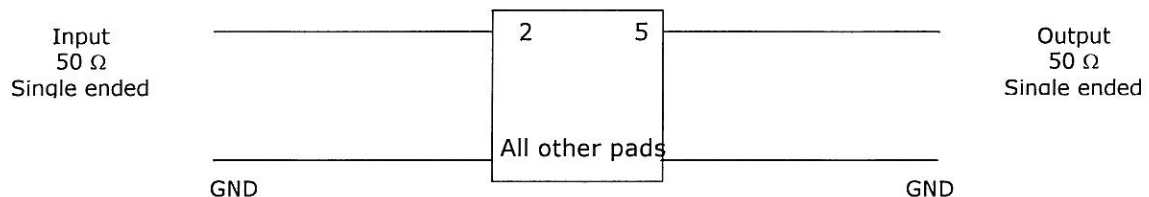
| Parameter | Min | Typ ⁽¹⁾ | Max | Units |
|---|-----|--------------------|-----|--------|
| Center Frequency F_c | - | 869 | - | MHz |
| Insertion Loss (868-870 MHz) | - | 2.8 | 3.4 | dB |
| Amplitude Ripple (868-870 MHz) | - | 0.3 | 1.5 | dB |
| 3 dB Bandwidth | - | 9.5 | - | MHz |
| Source Impedance (Single Ended) | 50 | | | ohms |
| Load Impedance (Single Ended) | 50 | | | ohms |
| Absolute Attenuation (DC to 300 MHz) ² | 45 | 52 | - | dB |
| 300 to 856.5 MHz ² | 40 | 44 | - | dB |
| 856.5 to 859.5 MHz ² | 15 | 40 | - | dB |
| 878 to 883.5 MHz ² | 15 | 30 | - | dB |
| 883.5 to 890 MHz ² | 48 | 70 | - | dB |
| 890 to 915 MHz ² | 28 | 36 | - | dB |
| 915 to 1500 MHz ² | 40 | 50 | - | dB |
| Temperature Coefficient of Frequency | | - | -36 | ppm/°C |

Notes: 1). Typical values are nominal performance at room temperature.
2). Reference level from 0 db.

MAXIMUM RATINGS

| Parameter | Min | Max | Units |
|--|-----|-----|-------|
| Storage Temperature Range | -40 | 85 | °C |
| Operating temperature Range | -40 | 85 | °C |
| Input Power Level | - | +15 | dBm |
| Max. D. C. Voltage between Each Terminal | - | 3 | V |

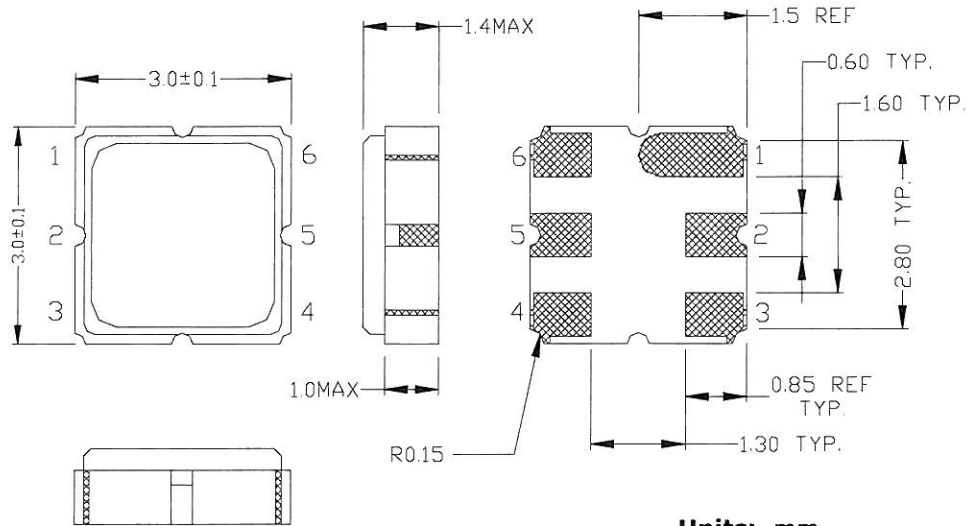
MATCHING CIRCUIT



Notes:

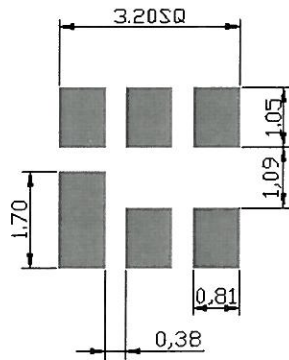
- External matching components are not required.
- Device is intended to operate in a 50 Ω single ended system.

PACKAGE OUTLINE



Units: mm

SUGGESTED FOOTPRINT



Typical tolerances are ±0.15 mm except where indicated.

Pad Configuration:

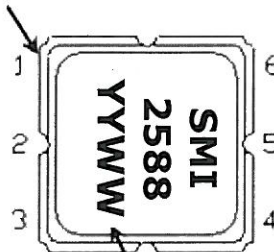
Input: 2
Output: 5
Ground: All other pads

Package Material:

Body: Al_2O_3 ceramic
Lid: Kovar, Ni plated
Terminations: Au plating 1 µm min, over a 1.3-8.9 µm Ni plating

MARKING

ODD SHAPED PAD



DATE CODE (YEAR, WEEK)

ISO 9001
Registered

All specifications are believed to be accurate and reliable. However, Spectrum Microwave reserves the right to make changes without notice.
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