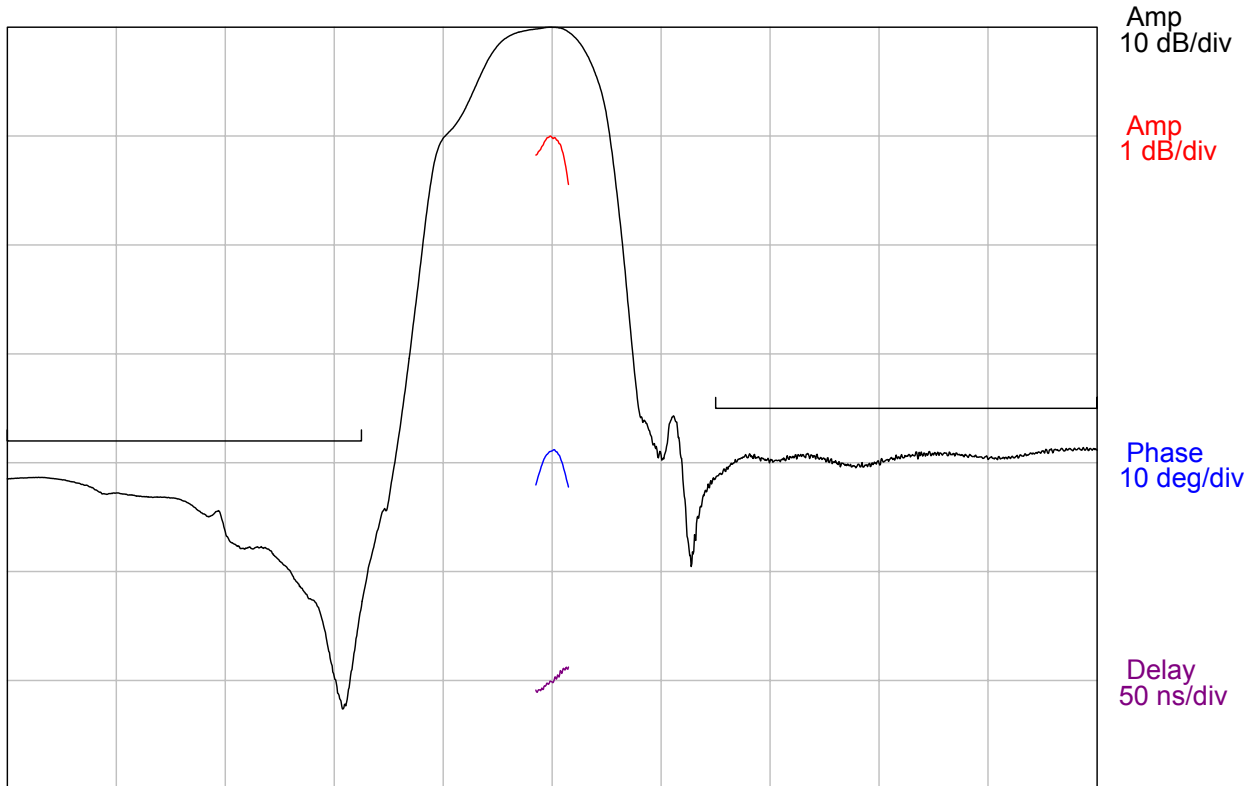


DESCRIPTION

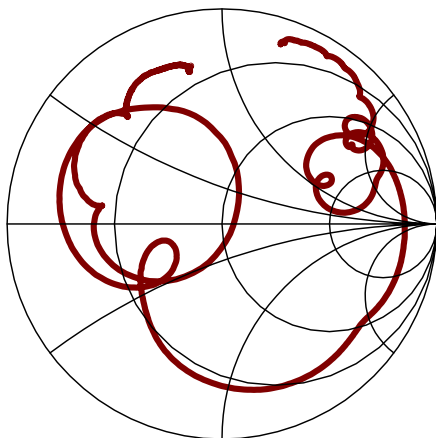
- 1500 MHz SAW bandpass filter with 6 MHz bandwidth.
- 3.8 x 3.8 mm ceramic LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE

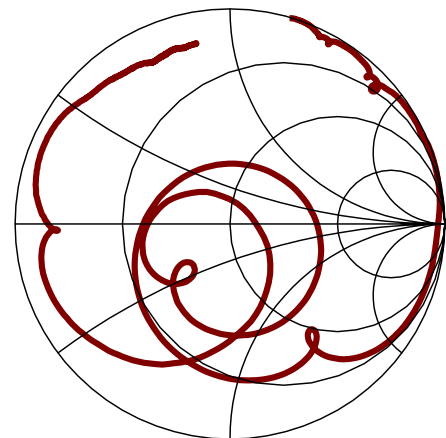


Center = 1500 MHz, 20 MHz/div (125 kHz incr)

S11 (1400-1600 MHz)



S22 (1400-1600 MHz)



SPECIFICATION

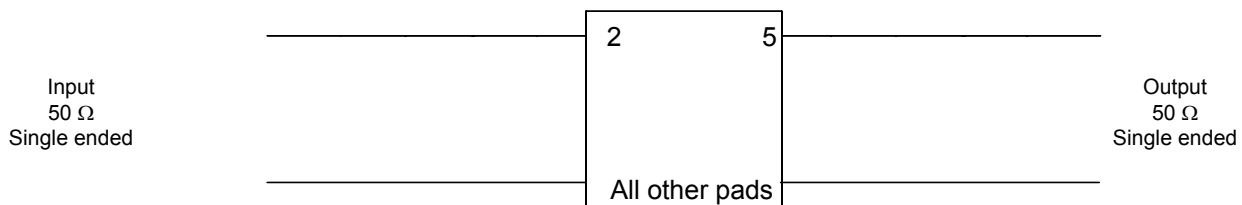
Parameter	Min	Typ	Max	Units
Center Frequency, F_c ¹	1490	1500	1510	MHz
Insertion Loss	-	3.9	6	dB
Passband Ripple (1497-1503 MHz)	-	0.8	2	dB p-p
Phase Ripple (1497-1503 MHz)	-	3	5	deg p-p
Group Delay Deviation (1497-1503 MHz)	-	10	20	ns p-p
Absolute Delay	-	52	-	ns
3 dB bandwidth ²	6	18.5	21	MHz
Lower 3 dB Frequency ²	-	1488.2	1497	MHz
Upper 3 dB Frequency ²	1503	1506.7	-	MHz
30 dB Bandwidth ²	-	40.8	-	MHz
40 dB bandwidth ²	-	48.9	-	MHz
Relative Attenuation (1400-1465 MHz)	38	42	-	dB
Relative Attenuation (1530-1600 MHz)	35	38	-	dB
Input /Output Return Loss at F_c	6	10	-	dB
Source and Load Impedance	50			ohms
Temperature Coefficient of Frequency	-32			ppm/°C
Ambient Temperature	-	25	-	°C

- Notes: 1. Reference frequency. Computed as mean of the 3 dB frequencies.
2. All dB values are referenced to the insertion loss value.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	100	°C
Operating Temperature Range	-30	100	°C
Input Power Level	-	13	dBm

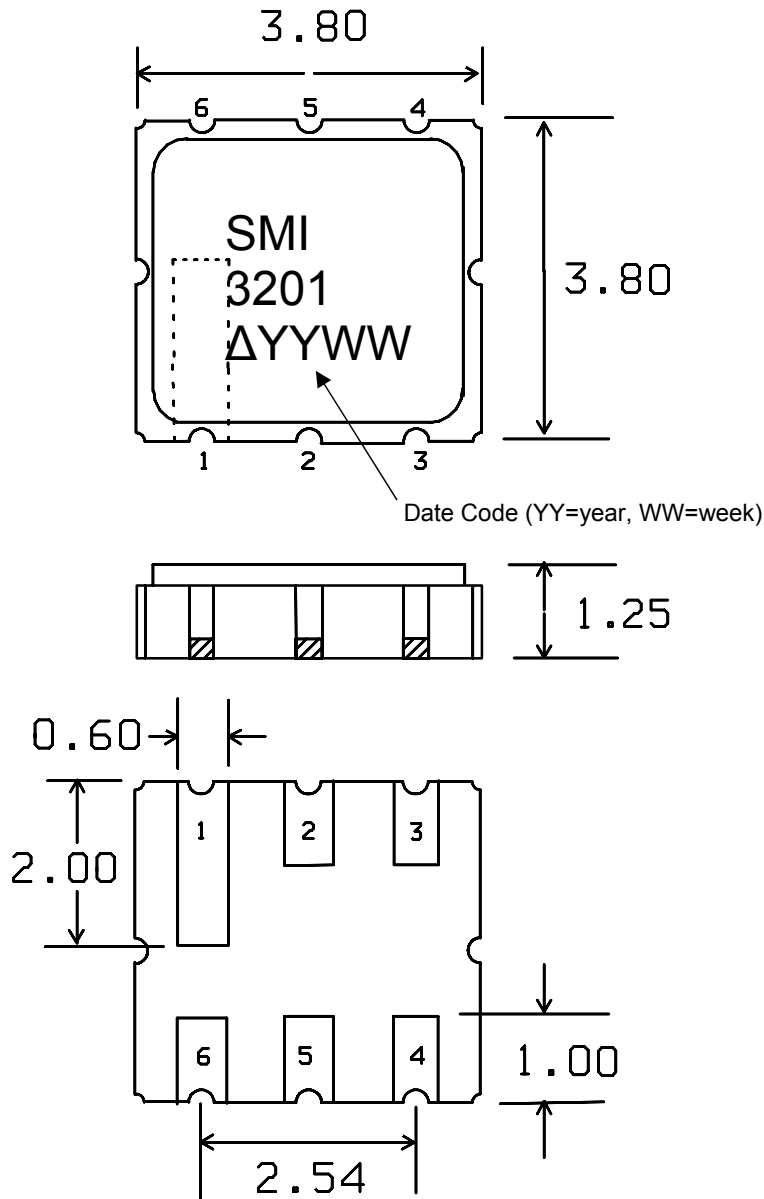
MATCHING CIRCUIT



Notes:

- Matching components are not required.
- Operation is in a 50 ohm single-ended system.

PACKAGE OUTLINE



Units: mm

Tolerances are typically ± 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 μ m min, over a 1.3-8.9 μ m Ni plating

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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