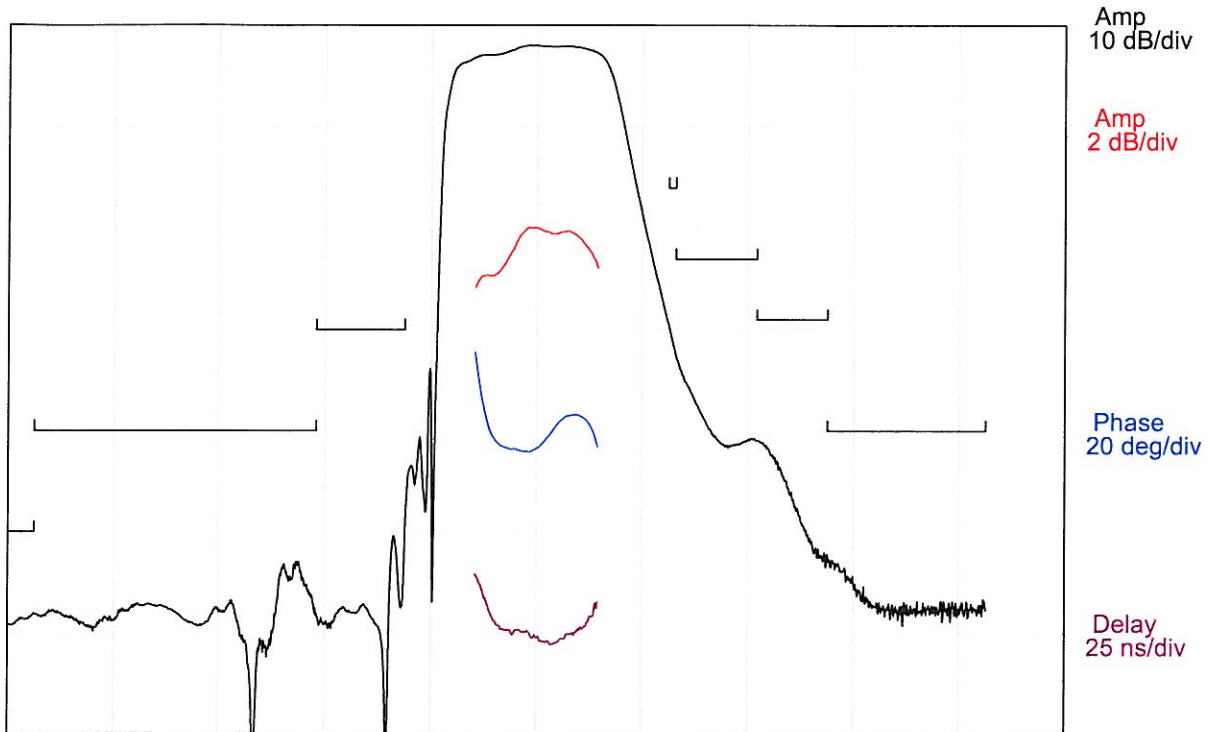


DESCRIPTION

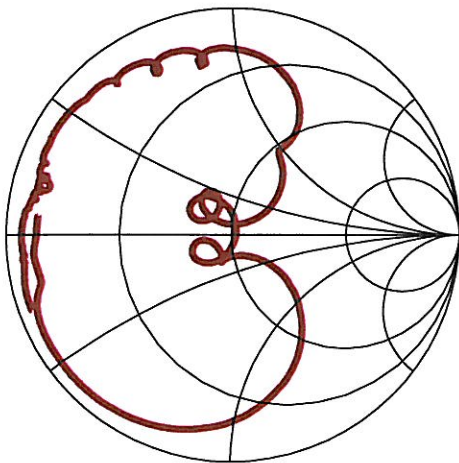
- 942.5 MHz SAW bandpass filter with 35 MHz bandwidth.
- 3 x 3 mm ceramic SMP, 6 pads.
- RoHS compliant.

TYPICAL PERFORMANCE

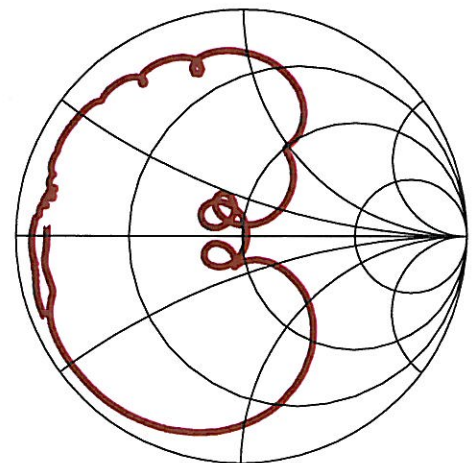


Center = 942.5 MHz, 30 MHz/div (187.5 kHz incr)

S11 (792.5 to 1092.5 MHz)



S22 (792.5 to 1092.5 MHz)



SPECIFICATION

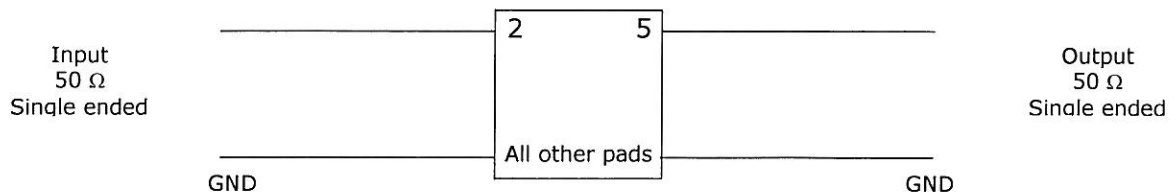
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	-	942.5	-	MHz
Insertion Loss (925 to 960 MHz)	-	2.8	4	dB
Amplitude Ripple (925 to 960 MHz)	-	1.1	2.3	dB
Attenuation (0.3 to 800 MHz) ²	50	60	-	dB
Attenuation (800 to 880 MHz) ²	40	53	-	dB
Attenuation (880 to 905 MHz) ²	30	47	-	dB
Attenuation (980 to 982 MHz) ²	16	27	-	dB
Attenuation (982 to 1005 MHz) ²	23	29	-	dB
Attenuation (1005 to 1025 MHz) ²	29	41	-	dB
Attenuation (1025 to 1760 MHz) ²	40	48	-	dB
Attenuation (1760 to 2300 MHz) ²	30	40	-	dB
Attenuation (2300 to 3000 MHz) ²	20	28	-	dB
Input VSWR (925 to 960 MHz)	-	1.5	2.1	:1
Output VSWR (925 to 960 MHz)	-	1.5	2.1	:1
Ambient Temperature	-	25	-	°C
System Source and Load Impedance	-	50	-	Ω

- Notes: 1. Average of lower & upper 3 dB frequencies.
2. Reference level from 0 dB.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating Temperature Range	-20	85	°C
Input Power Level	-	+15	dBm
DC Voltage	-	3	V

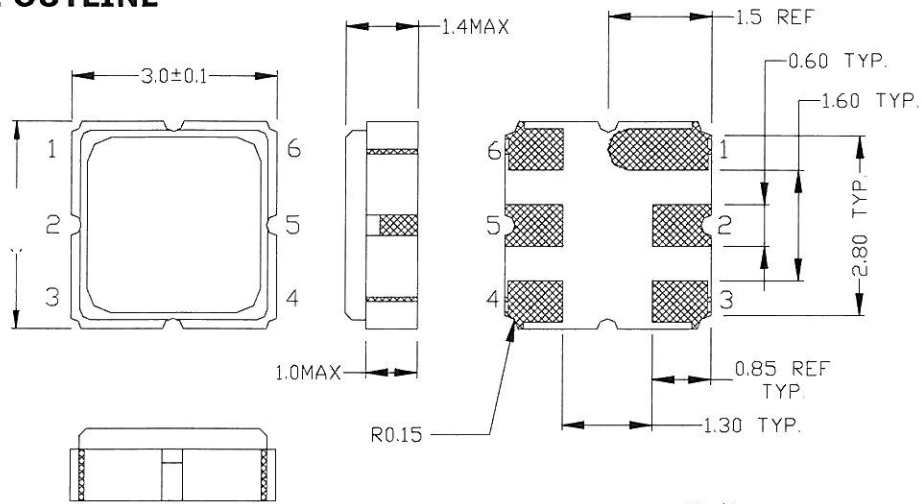
MATCHING CIRCUIT



Notes:

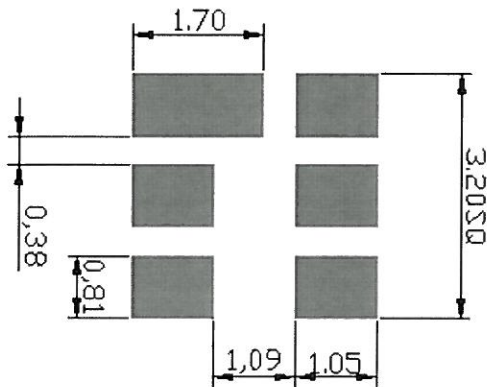
- External matching components are not required.
- Device is intended to operate in a 50 Ω single ended system.

PACKAGE OUTLINE



Units: mm

SUGGESTED FOOTPRINT



Typical tolerances are ± 0.15 mm except where indicated.

Pad Configuration:

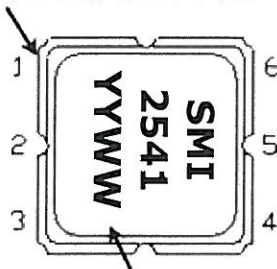
Input: 2
Output: 5
Ground: All other pads

Package Material:

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

MARKING

ODD SHAPED PAD



DATE CODE (YEAR, WEEK)



All specifications are believed to be accurate and reliable. However, Spectrum Microwave reserves the right to make changes without notice. © 2011 All rights reserved.