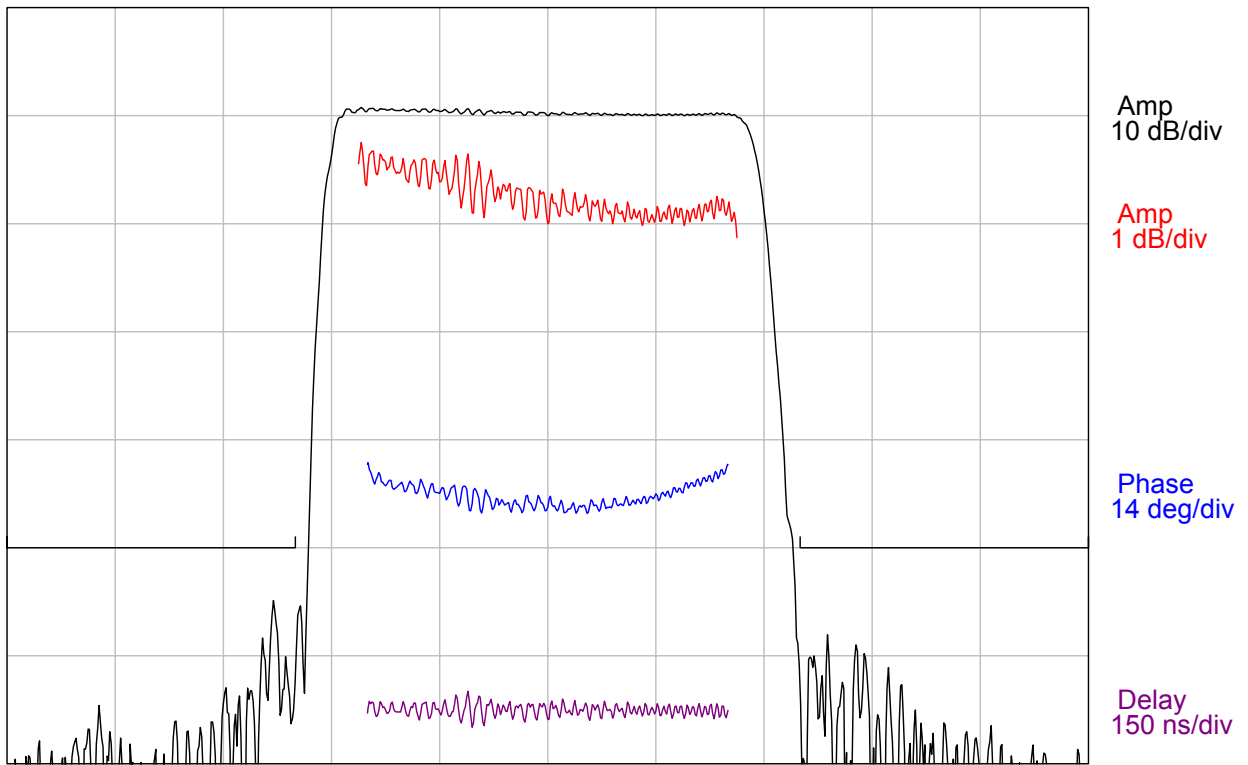


DESCRIPTION

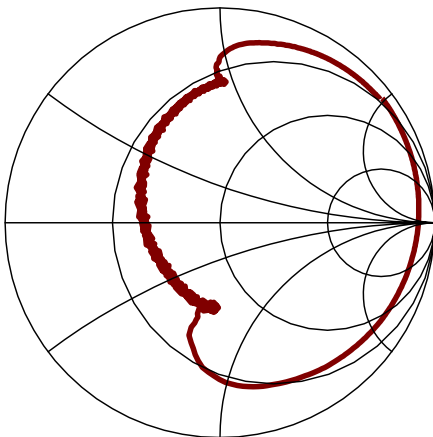
- 120 MHz SAW bandpass filter with 42 MHz bandwidth.
- 7 x 5 mm ceramic LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE

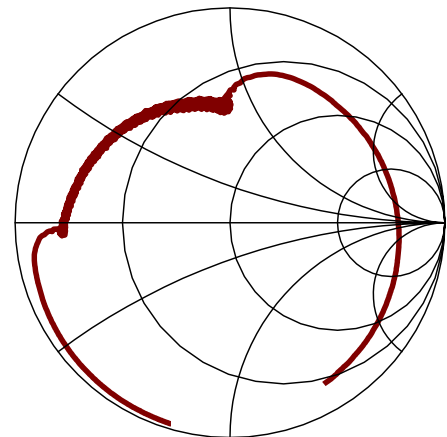


Center = 120 MHz, 12 MHz/div (150 kHz incr)

S11 (60-180 MHz)



S22 (60-180 MHz)



SPECIFICATION

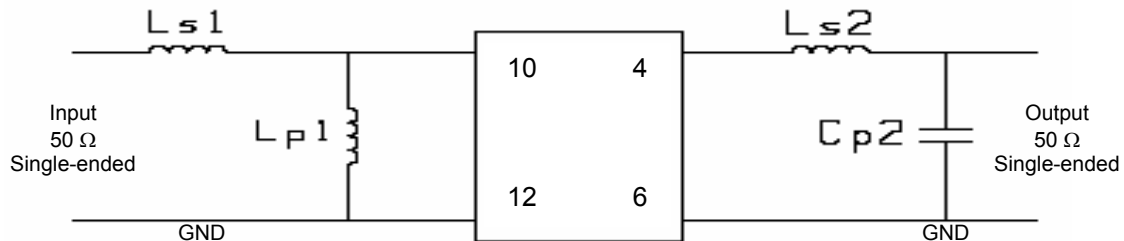
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	-	120	-	MHz
Insertion Loss ²	-	14.7	18	dB
Lower 1 dB Frequency	-	96.7	99	MHz
Upper 1 dB Frequency	141	142.2	-	MHz
Passband Amplitude Variation ³	-	0.85	1.2	dB p-p
Passband Amplitude Variation ⁴	-	1.1	1.7	dB p-p
Phase Deviation from Linear ³	-	8	14	deg p-p
Group Delay Variation ³	-	70	150	ns p-p
Lower 40 dB Frequency	92	93.5	-	MHz
Upper 40 dB Frequency	-	147.0	148	MHz
Absolute Delay	-	0.76	1.2	us
Source and Load Impedance	-	50	-	Ω

- Notes:
1. Average of lower and upper 3 dB frequencies.
 2. Measured at 120 MHz.
 3. Evaluated over 100 to 140 MHz.
 4. Evaluated over 99 to 141 MHz.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	$^{\circ}\text{C}$
Operating Temperature Range	0	85	$^{\circ}\text{C}$
Input Power Level	-	+13	dBm

MATCHING CIRCUIT



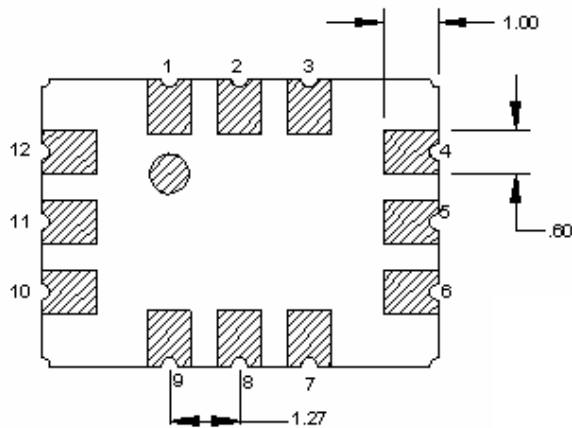
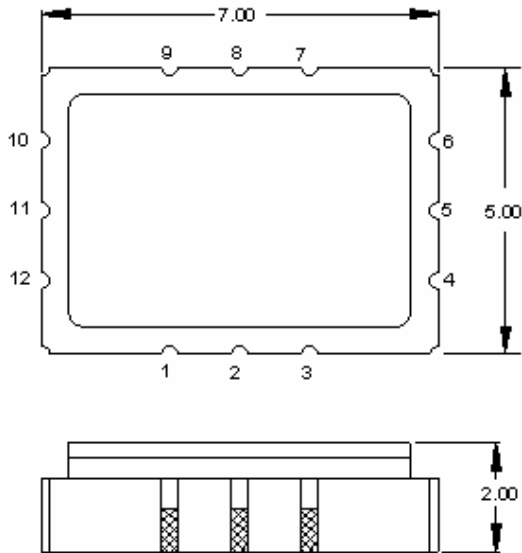
Typical component values:

$L_{p1} = 100$ nH	$L_{s2} = 68$ nH
$L_{s1} = 82$ nH	$C_{p2} = 21$ pF

Notes:

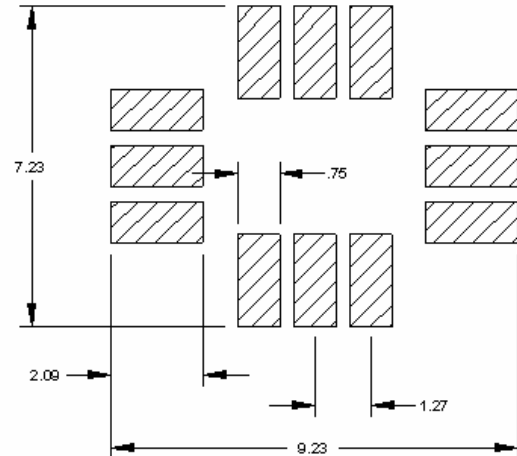
1. Recommend +/-2% tolerance matching components. Typical inductor $Q=0$.
2. Tuning values shown are for reference only. Optimum values may change depending upon board layout

PACKAGE OUTLINE



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

SUGGESTED FOOTPRINT



Units: mm

Tolerances are ± 0.15 mm except where indicated.

Pad Configuration:

Input: 10
Input Return: 12
Output: 4
Output Return: 6
Ground: All other pads

ISO 9001
Registered

All specifications are believed to be accurate and reliable. However, Spectrum Microwave reserves the right to make changes without notice.
© 2010 All rights reserved.