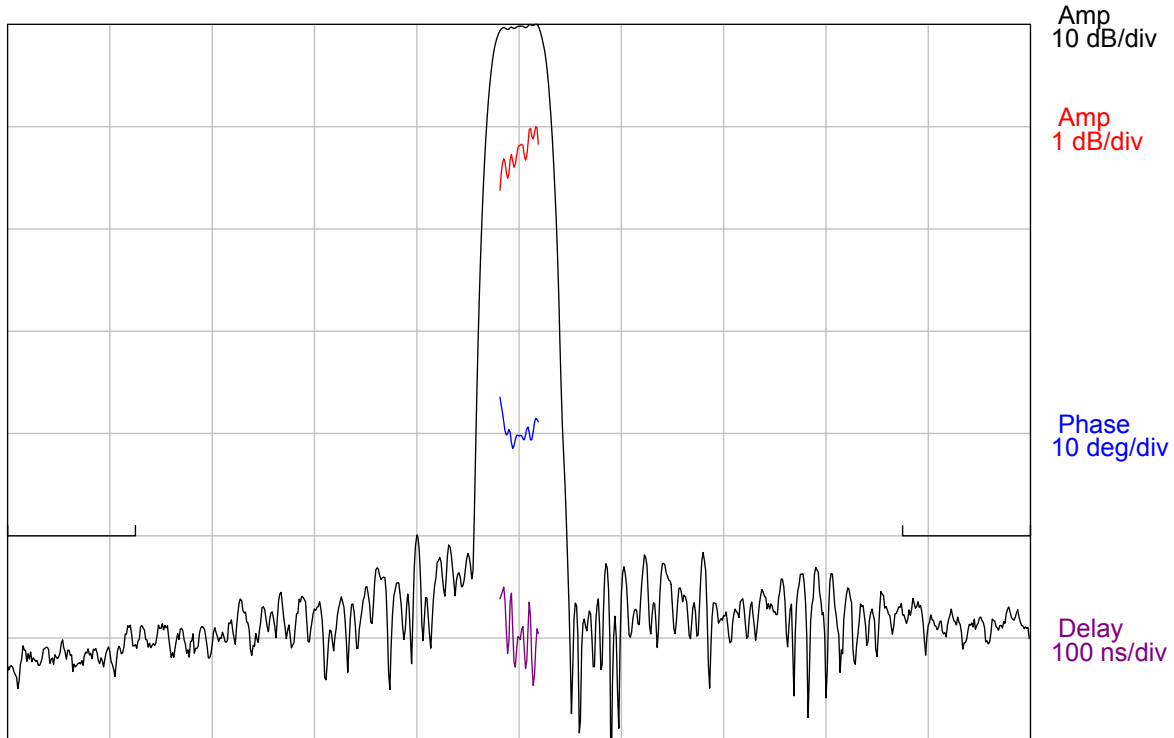


DESCRIPTION

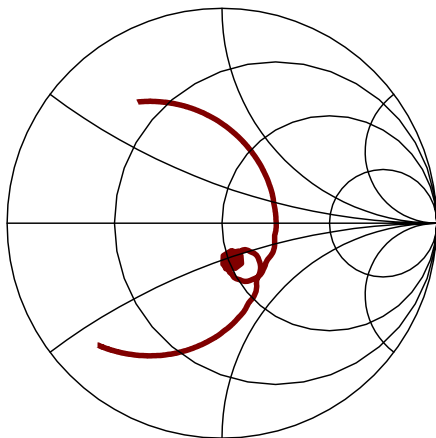
- 242 MHz SAW bandpass filter with 1.55 MHz bandwidth.
- 13.3 x 6.5 mm ceramic LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE

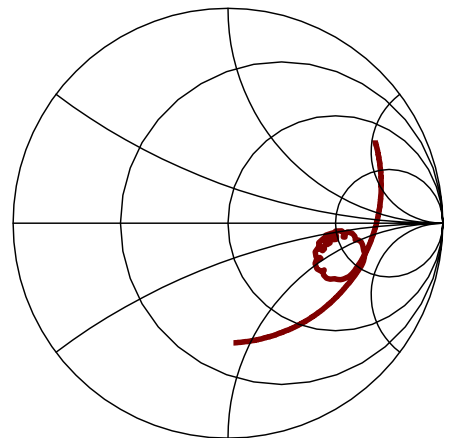


Center = 242 MHz, 4 MHz/div (50 kHz incr)

S11 (222-262 MHz)



S22 (222-262 MHz)



SPECIFICATION

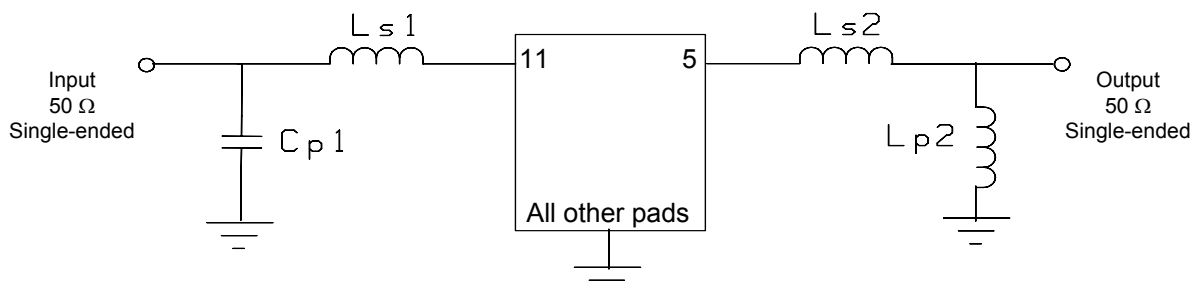
Parameter	Min	Typ	Max	Units
Center Frequency, F_c ¹	-	242	-	MHz
Insertion Loss at F_c	-	17.5	20	dB
1 dB Bandwidth	1.55	1.73	-	MHz
20 dB Bandwidth ²	-	2.94	-	MHz
40 dB Bandwidth ²	-	3.38	3.4	MHz
50 dB Bandwidth ²	-	5.89	30	MHz
Amplitude Ripple ($F_c \pm 0.75$ MHz)	-	0.6	1	dB p-p
Group Delay Variation ($F_c \pm 0.75$ MHz) ³	-	80	130	ns
Device Delay	-	1.72	-	us
Phase Linearity ($F_c \pm 0.75$ MHz)	-	5	8	deg p-p
Input / Output Return Loss at F_c	-	6	-	dB
Rejection (120 to 227 MHz) ²	50	55	-	dB
Rejection (257 to 360 MHz) ²	50	55	-	dB
Source/Load Impedance	50			ohms
Ambient Temperature	25			°C

- Notes:
1. Defined as the average of the lower and upper 3 dB frequencies at room ambient.
 2. All dB levels are defined relative to the insertion loss.
 3. A smoothing aperture of 0.2 MHz (0.5% of span) may be used for this measurement.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating Temperature Range	-10	85	°C
Input Power Level	0	13	dBm

MATCHING CIRCUIT

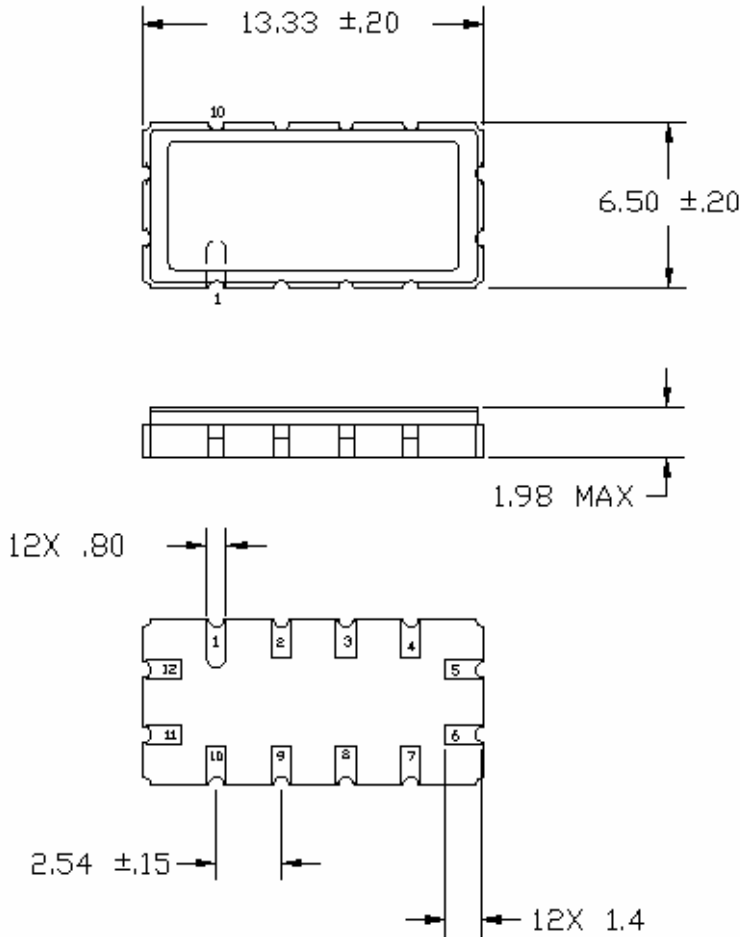


Typical Component values: $L_{s1} = 52$ nH $L_{s2} = 8.2$ nH
 $C_{p1} = 29$ pF $L_{p2} = 18$ nH

Notes:

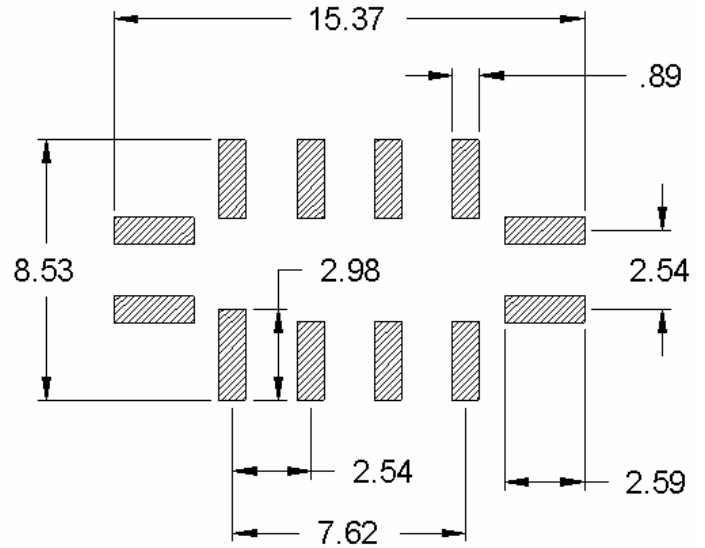
- Recommend 2% or better tolerance matching components. Typical inductor Q=40.
- Optimum values may change depending on board layout. Values shown are intended as a guide only.

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

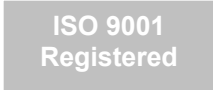


Units: mm

Tolerances are ± 0.15 mm except where indicated.

Pad Configuration:

Input: 11
 Output: 5
 Ground: All other pads



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