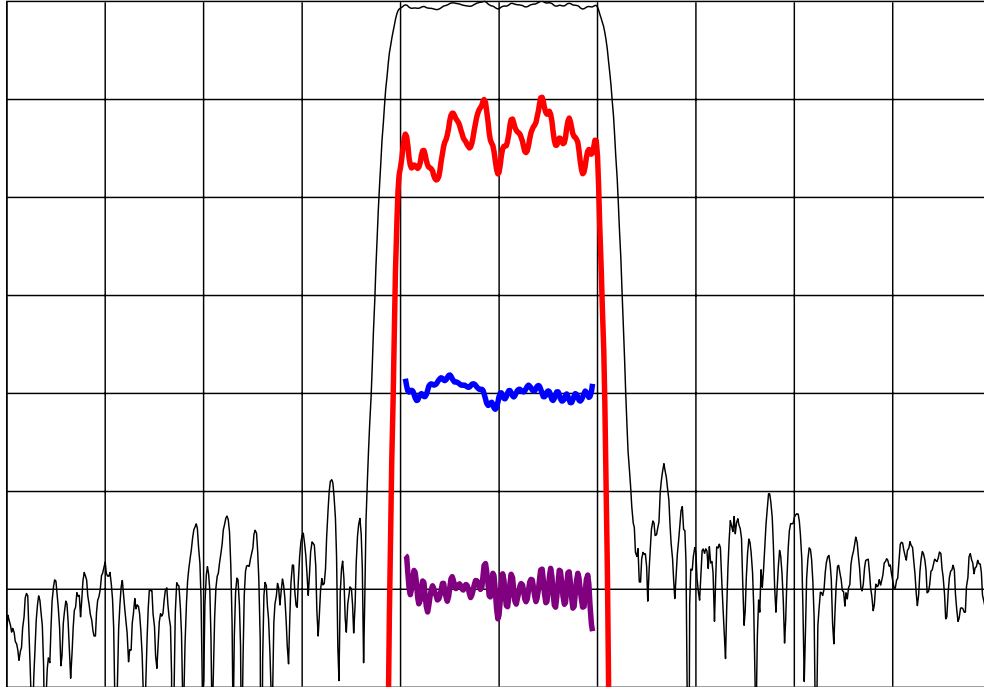


DESCRIPTION

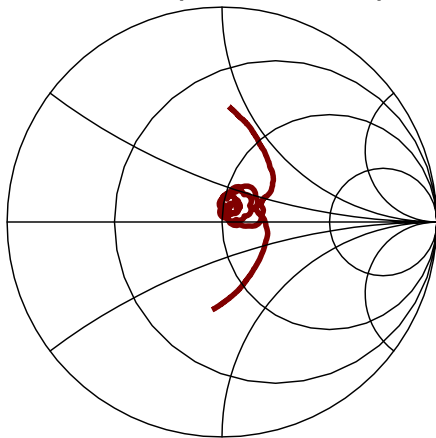
- 240 MHz SAW bandpass filter with 7.6 MHz bandwidth.
- 13.3 x 6.5 mm SMP.
- RoHS compliant.

TYPICAL PERFORMANCE

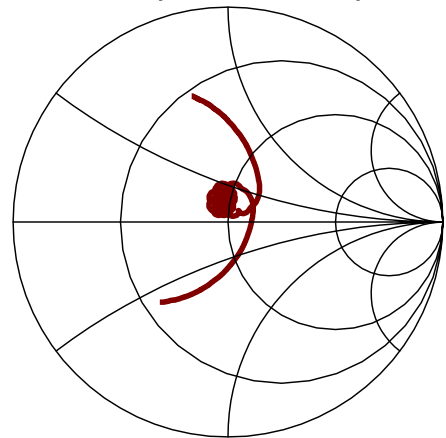


Horizontal: Frequency : 4 MHz/div
 Vertical from Top: Relative Magnitude : 10 dB/div
 Relative Magnitude : 1 dB/div
 Phase Linearity : 10 deg/div
 Group Delay Deviation : 100 ns/div

S11 (220-260 MHz)



S22 (220-260 MHz)



SPECIFICATION

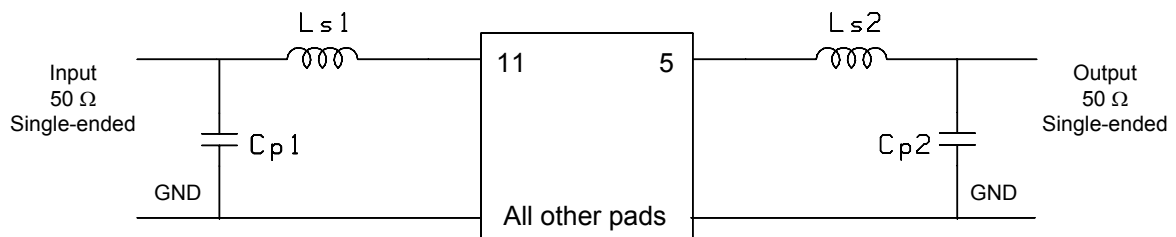
Parameter	Min	Typ	Max	Units
Center Frequency, F_c ¹	-	240	-	MHz
Insertion Loss at F_c	-	18.6	20	dB
1 dB Bandwidth ²	7.6	8.28	-	MHz
20 dB Bandwidth ²	-	9.73	10.2	MHz
40 dB Bandwidth ²	-	10.37	13	MHz
50 dB Bandwidth ²	-	17.95	26	MHz
Amplitude Ripple ($F_c \pm 3.7$ MHz)	-	0.8	1	dB p-p
Group Delay Variation ($F_c \pm 3.8$ MHz) ³	-	80	100	ns
Device Delay	-	1.36	-	us
Phase Linearity ($F_c \pm 3.8$ MHz)	-	5	8	deg p-p
Input / Output Return Loss at F_c	-	10	-	dB
Rejection (120 to 227 MHz) ²	50	55	-	dB
Rejection (253 to 360 MHz) ²	50	55	-	dB
Temperature Coefficient of Frequency	-18			ppm/°C
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 0.25% 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

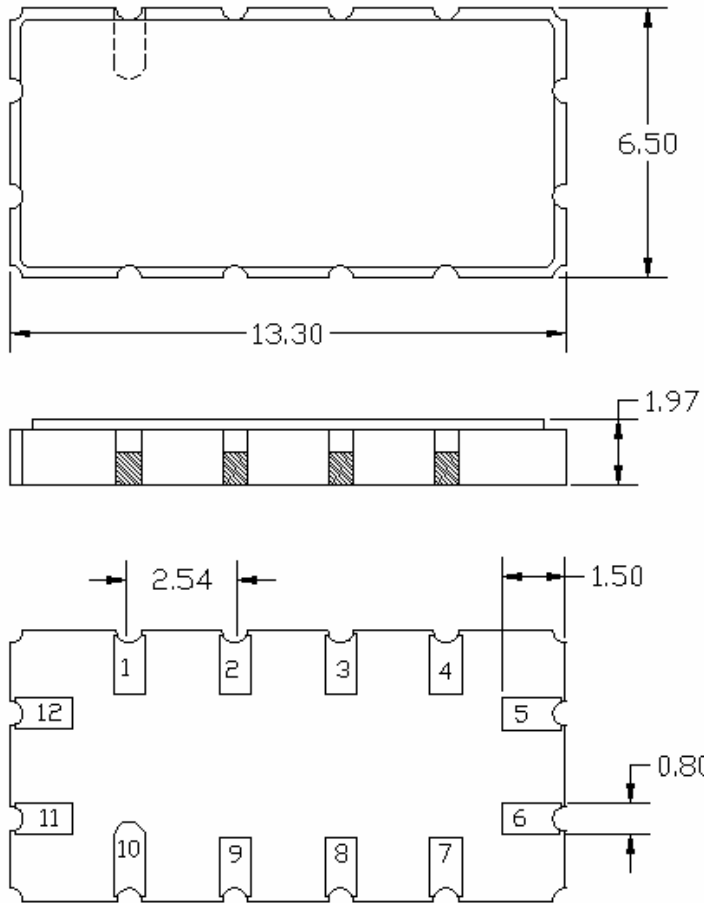


Typical Component values: $L_{s1} = 12$ nH $L_{s2} = 15$ nH
 $C_{p1} = 33$ pF $C_{p2} = 39$ pF

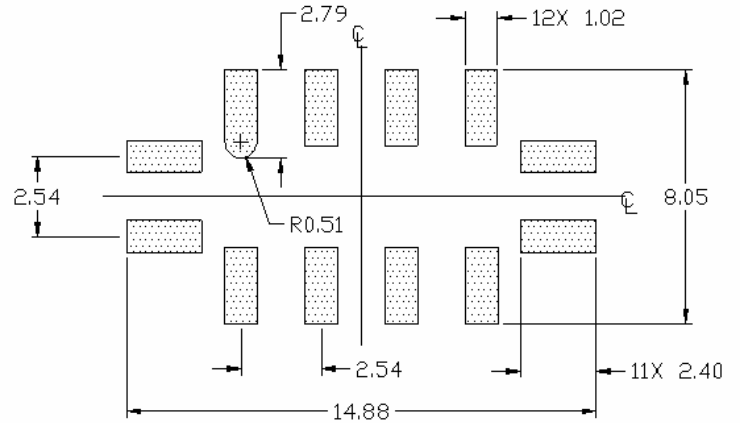
Notes:

- 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



SUGGESTED FOOTPRINT



Units: mm

Tolerances are ± 0.15 mm except where indicated.

Pad Configuration:

Input: 11
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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