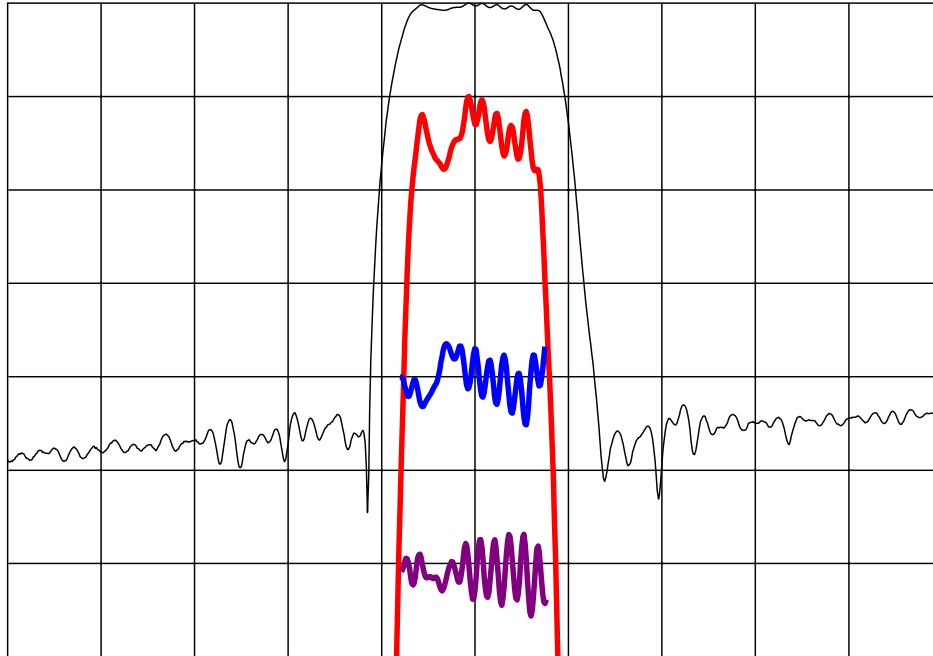


DESCRIPTION

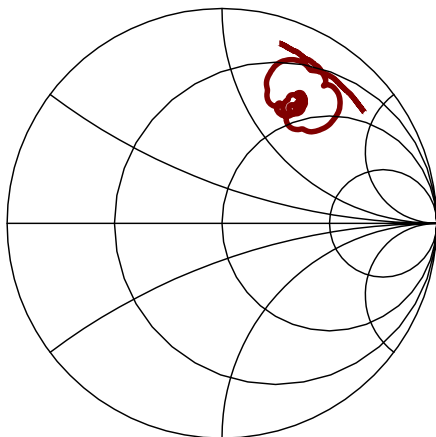
- 350 MHz SAW bandpass filter with 5 MHz bandwidth.
- 7 x 5 mm SMP.
- RoHS compliant.

TYPICAL PERFORMANCE

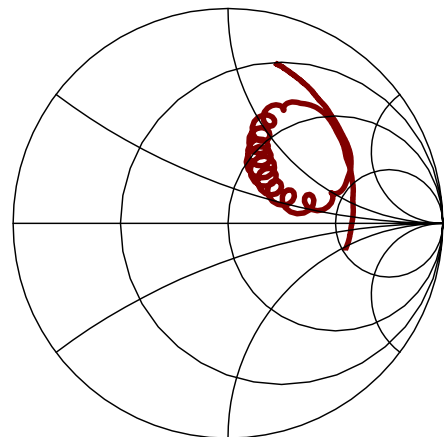


Horizontal: Frequency : 4 MHz/div
 Vertical from Top: Relative Magnitude : 10 dB/div
 Relative Magnitude : 1 dB/div
 Phase Linearity : 5 deg/div
 Group Delay Deviation : 100 ns/div

S11 (330-370 MHz)



S22 (330-370 MHz)



SPECIFICATION

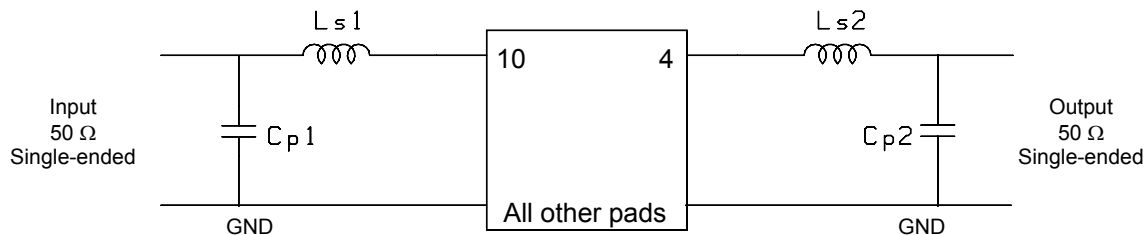
Parameter	Min	Typ	Max	Units
Center Frequency, F_c ¹	-	350	-	MHz
Insertion Loss at F_c	-	13.2	18	dB
1 dB Bandwidth ²	5	5.6	-	MHz
11 dB Bandwidth ²	6	6.3	-	MHz
41 dB Bandwidth ²	-	9.6	12	MHz
Amplitude Ripple ($F_c \pm 2.5$ MHz)	-	0.8	1	dB p-p
Group Delay Variation ($F_c \pm 2.5$ MHz)	-	70	80	ns
Phase Linearity ($F_c \pm 2.5$ MHz)	-	4	6	deg p-p
Absolute Delay	-	0.78	0.9	us
Rejection (150 to 344 MHz) ²	41	48	-	dB
Rejection (356 to 540 MHz) ²	41	48	-	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.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating Temperature Range	-10	60	°C
Input Power Level	-	13	dBm

MATCHING CIRCUIT



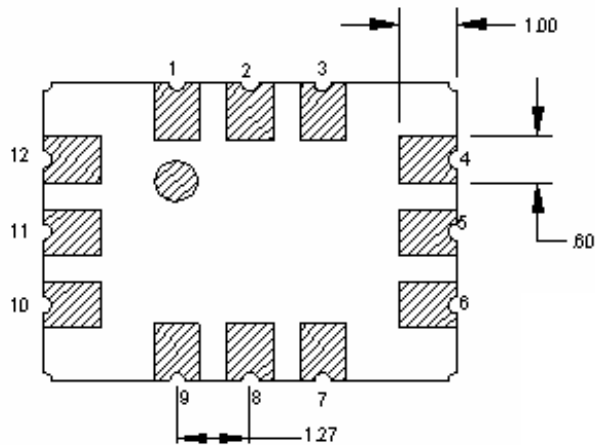
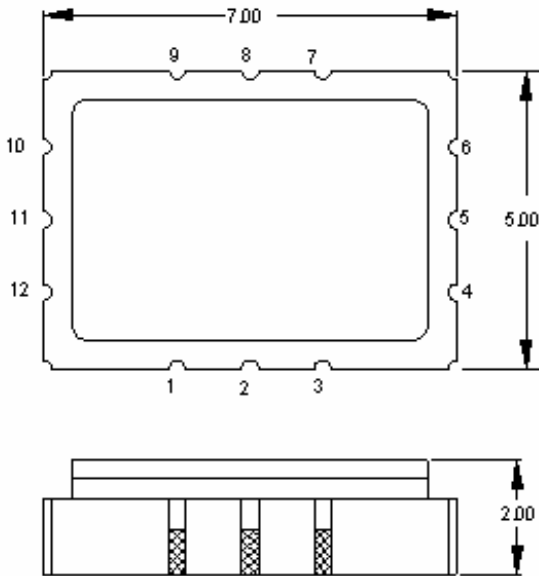
Typical Component values:

$L_{s1} = 8.2$ nH	$L_{s2} = 8.2$ nH
$C_{p1} = 10$ pF	$C_{p2} = 18$ pF

Notes:

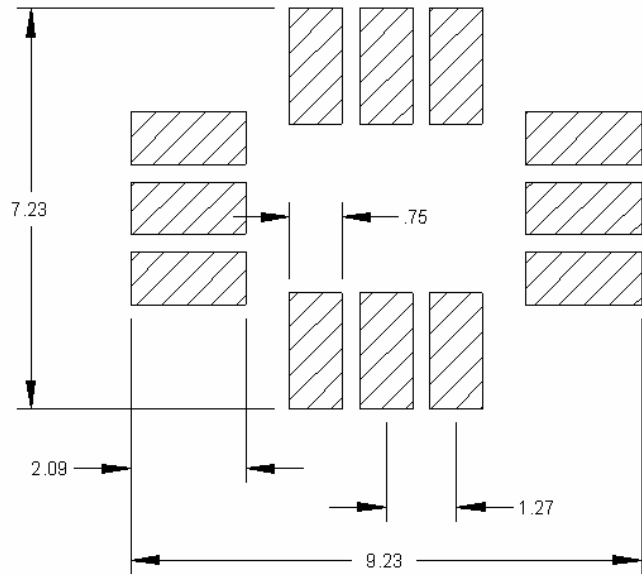
- Recommend 2% or better tolerance matching components. Typical inductor Q=40.
- Optimum values may change depending on board layout. Values shown are intended as a guide only.

PACKAGE OUTLINE



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
Output: 4
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.
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