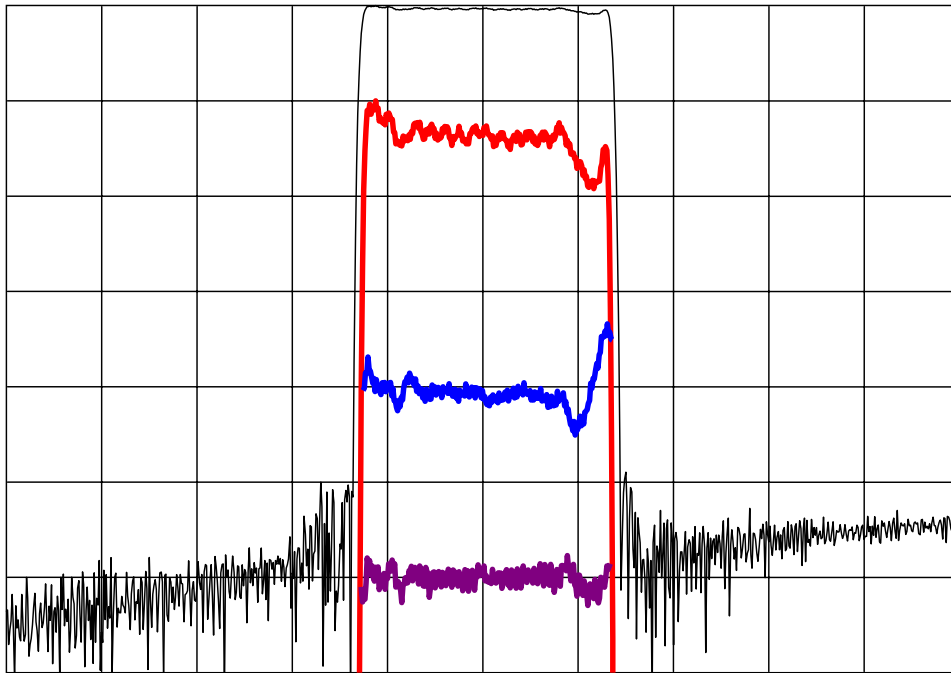


DESCRIPTION

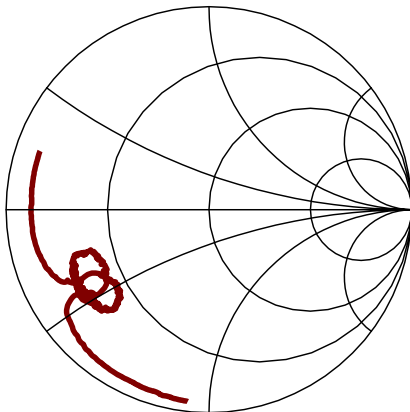
- 127.5 MHz high performance SAW filter with 20 MHz bandwidth.
- 24 x 9 mm LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE

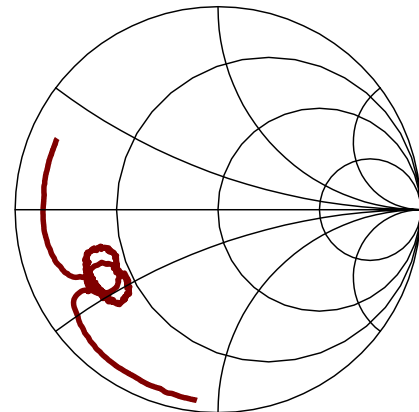


Horizontal: Frequency : 8 MHz/div
 Vertical from Top: Relative Magnitude : 10 dB/div
 Relative magnitude : 1 dB/div
 Phase : 5 deg/div
 Group Delay : 50 ns/div

S11 (87.5 to 167.5 MHz)



S22 (87.5 to 167.5 MHz)



SPECIFICATION

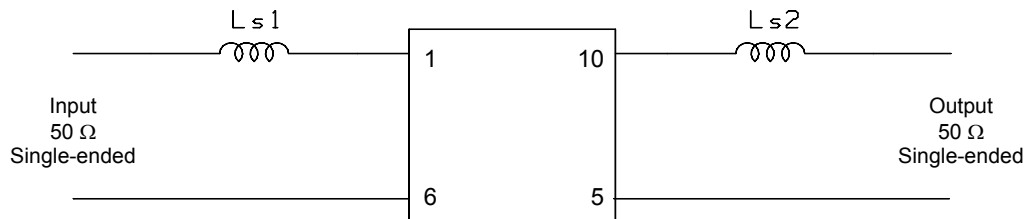
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	-	127.50	-	MHz
Insertion Loss ²	-	19.8	22.0	dB
Amplitude Ripple (118 to 137 MHz) at 23C	-	0.8	1.2	dB p-p
Phase Linearity (118 to 137 MHz) at 23C	-	4	8	deg p-p
Group Delay Deviation (118 to 137 MHz) at 23C	-	35	100	ns p-p
Amplitude Ripple (118 to 137 MHz) ⁴	-	1.4	2.0	dB p-p
3 dB Bandwidth ³	20.75	20.95	-	MHz
35 dB Bandwidth ³	-	22.17	22.38	MHz
Rejection at 139.8 MHz ³	35	50	-	dB
Ultimate Rejection ³	40	53	-	dB
Absolute Delay	-	2.14	2.20	us
System Source and Load Impedance	-	50	-	Ω

- Notes:
- Center frequency = (Lower 3dB value + Upper 3dB value)/2.
 - Insertion Loss is defined as the minimum loss value within the passband.
 - Parameters are measured relative to the Insertion Loss.
 - Parameter is measured over the operating temperature range.

MAXIMUM RATINGS

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

MATCHING CIRCUIT

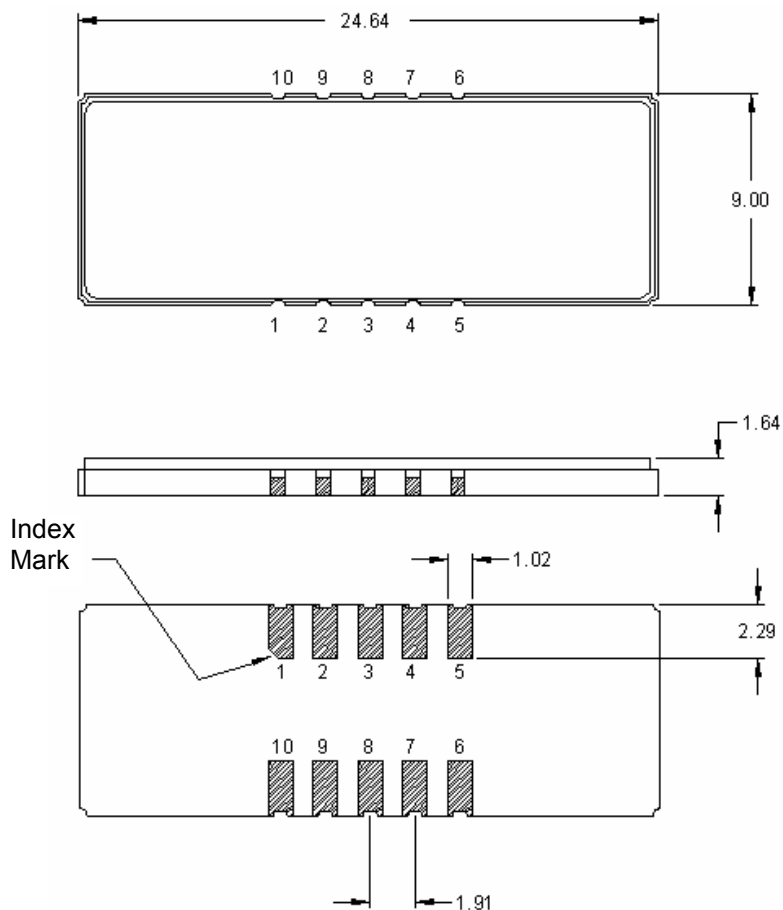


Typical component values: Ls1 = 33 nH Ls2 = 33 nH
Minimum Q=40

Notes:

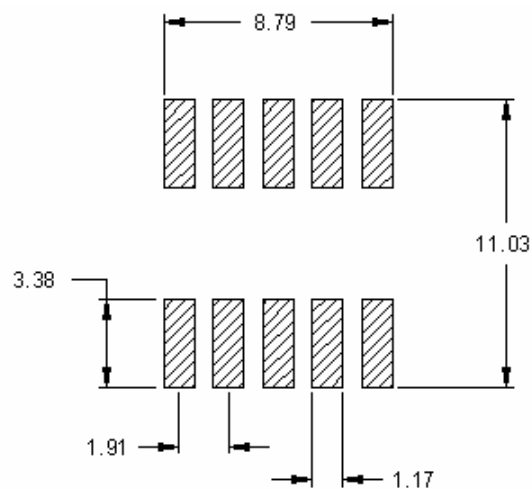
- Recommend 2% tolerance matching components.
- Optimum values may differ from these when using a different fixture or board layout. The values shown here are intended as a guide only.

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

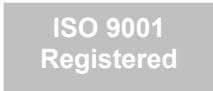


Units: mm

Dimensions are nominal in mm. All tolerances are ± 0.15 mm except those shown.

Pad Configuration:

Input:	1
Input Return:	10
Output:	6
Output Return:	5
Ground:	2, 3, 4, 7, 8, 9



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