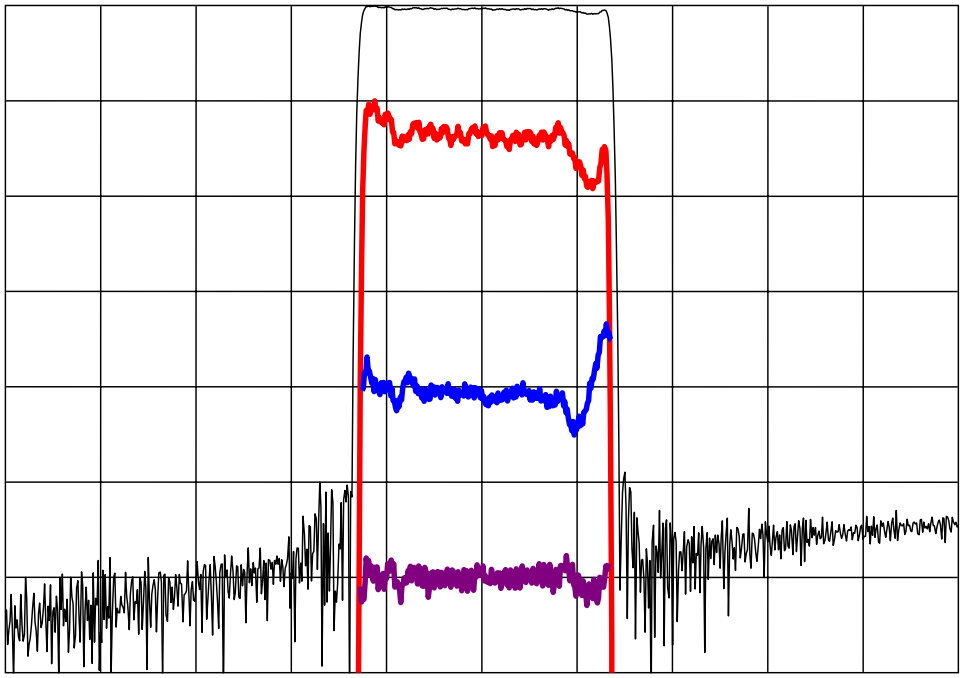
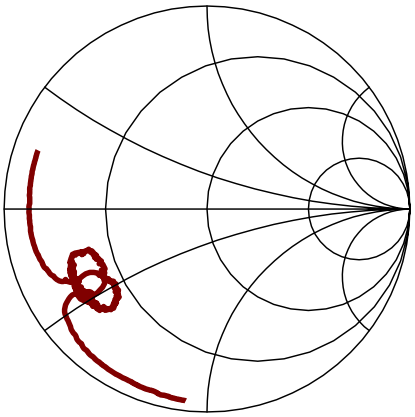
- 127.5 MHz high performance SAW filter with 20 MHz bandwidth
- 24 x 9 mm LCC package
- RoHS compliant

TYPICAL PERFORMANCE

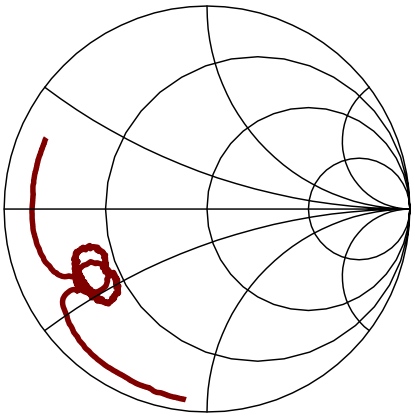


Horizontal:	Frequency :	8	MHz/div
Vertical from Top:	Relative Magnitude :	10	dB/div
	Relative Magnitude :	1	dB/div
	Phase :	5	deg/div
	Group Delay :	50	ns/div

S11 (87.5 to 167.5 MHz)



S22 (87.5 to 167.5 MHz)



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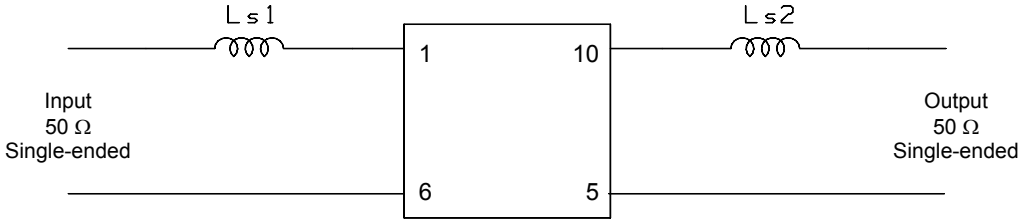
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) [1]	-	127.50	-	MHz
Insertion Loss [2]	-	19.8	22.0	dB
Amplitude Ripple (118 to 137 MHz) at 23C	-	0.8	1.2	dB p-p
Phase Linearity (118 to 137 MHz) at 23C	-	4	8	deg p-p
Group Delay Deviation (118 to 137 MHz) at 23C	-	35	100	ns p-p
Amplitude Ripple (118 to 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:
1. Center frequency = (Lower 3dB value + Upper 3dB value)/2.
2. Insertion Loss is defined as the minimum loss value within the passband.
3. Parameters are measured relative to the Insertion Loss.
4. Parameter is measured over the operating temperature range.

MAXIMUM RATINGS

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

MATCHING CIRCUIT



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

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

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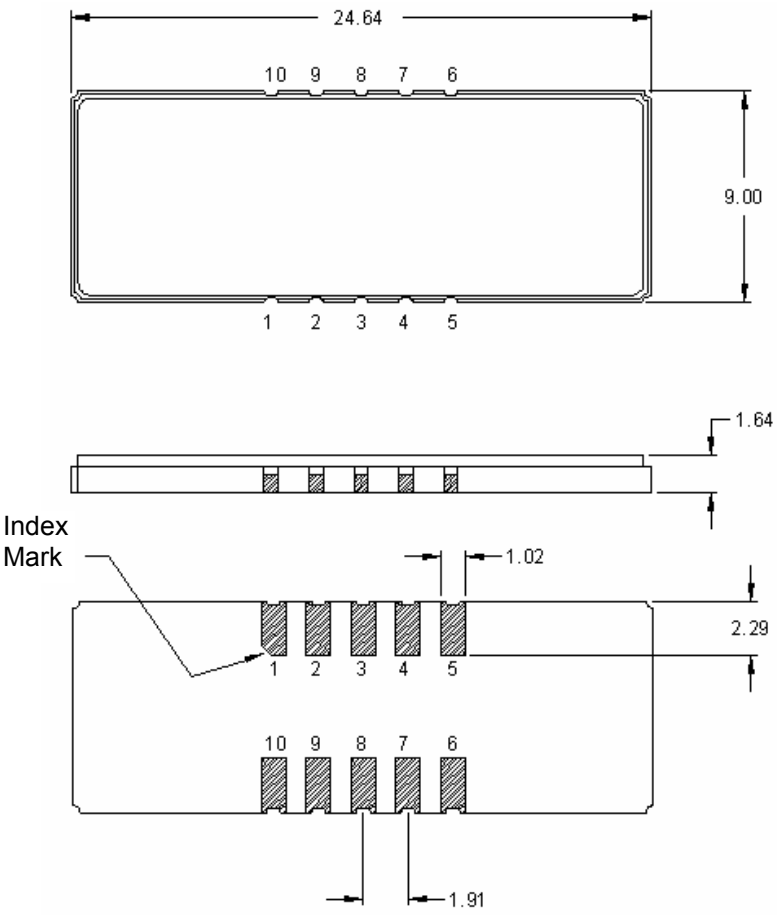
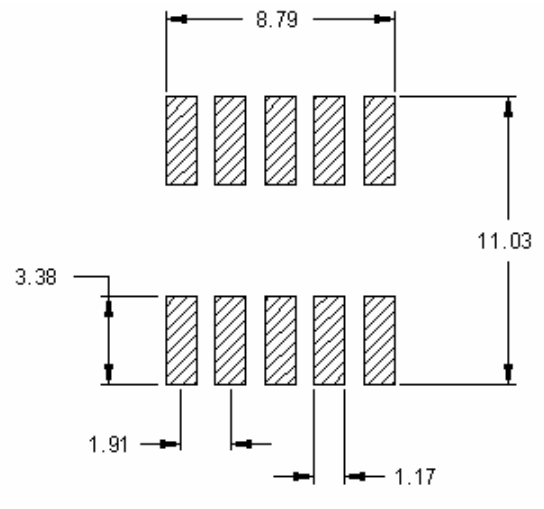
PACKAGE OUTLINE



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

Package Material:
Body: Al_2O_3 ceramic
Lid: *Kovar, Ni* plated
Terminations: *Au* plating 1 µm min, over a 1.3-8.9 µm *Ni* plating

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