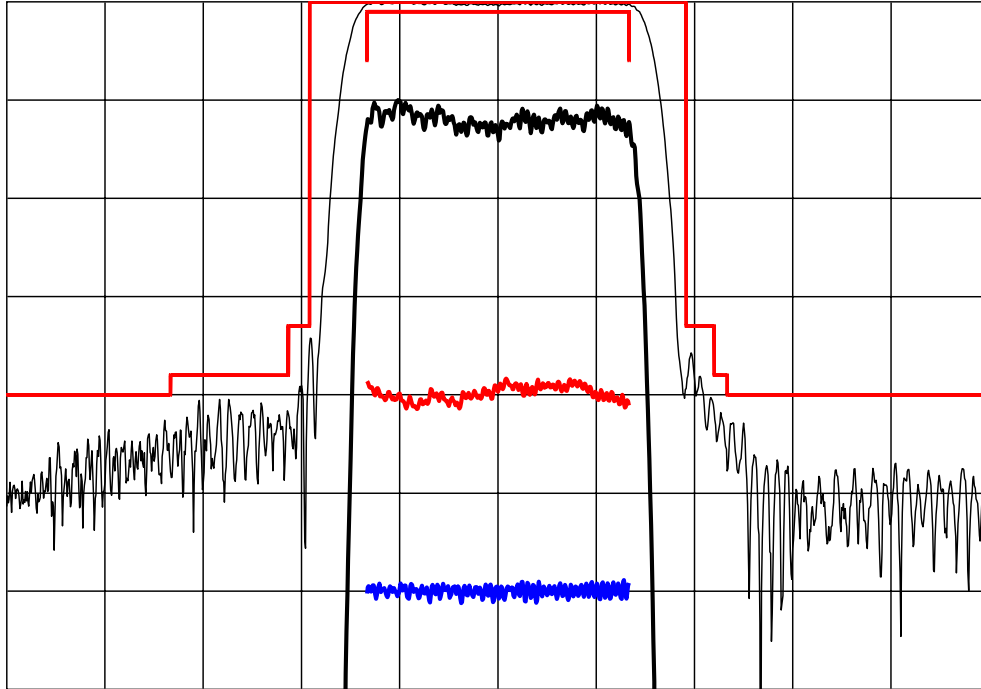




DESCRIPTION

250 MHz high performance SAW filter in 5 x 5 mm LCC package for broadband communications applications.

TYPICAL PERFORMANCE



Horizontal: 30 MHz/div

Vertical (from top):

Magnitude

10 & 1

dB/div

Phase Deviation

5

deg/div

Group Delay Deviation

50

ns/div



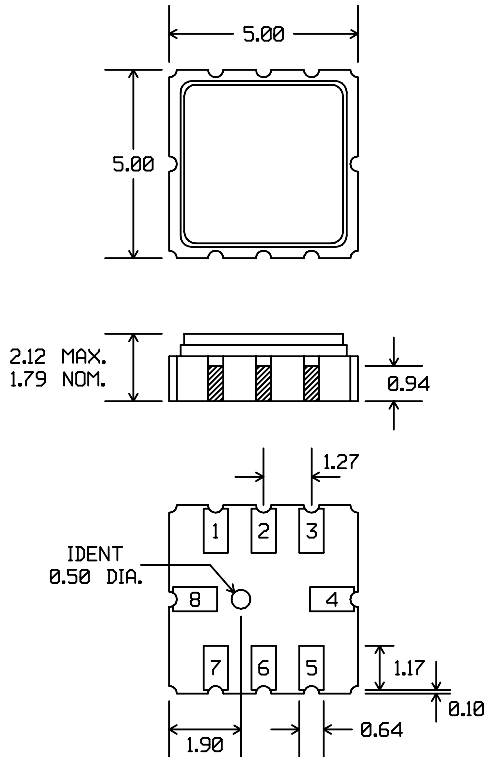
SPECIFICATION

Parameter ²	Min	Typ	Max	Units
Center Frequency (Fc) ¹		250		MHz
Minimum Insertion Loss		19.4	20.5	dB
1 dB Bandwidth	80.0	84.0		MHz
Lower 33 dB Band Edge	192.5	195.8		MHz
Upper 33 dB Band Edge		304.6	307.5	MHz
Rejection (0.3 to 30 MHz)	30	40		dB
Rejection (30 MHz to 150 MHz)	40	48		dB
Rejection (150 to 186 MHz)	38	40		dB
Rejection (186 to 192.5 MHz)	33	35		dB
Rejection (307.5 to 316 MHz)	33	35		dB
Rejection (316 to 320 MHz)	38	41		dB
Rejection (320 to 500 MHz)	40	45		dB
Passband Ripple (210 to 290 MHz) ²		0.7	1.0	dB p-p
Passband Ripple (209 to 291 MHz) ²		0.8	1.5	dB p-p
Phase Linearity (210 to 290 MHz) ²		4.5	8	deg p-p
Group Delay Deviation (210 to 290 MHz) ²		25	50	ns p-p
Source and Load Impedance		50		Ω
Input Power		+10	+13	dBm
Operating Temperature Range	-20	23	85	$^{\circ}$ C

- Notes: 1. Average of the lower and upper 3 dB band edge frequencies.
2. Specifications apply to the entire temperature range.



PACKAGE OUTLINE

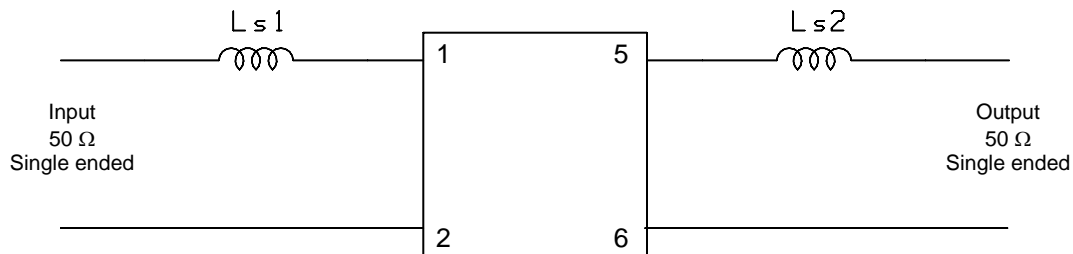


Units: mm

Pin Configuration:

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

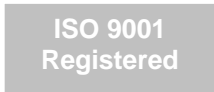
MATCHING CIRCUIT



Typical component values: $L_{s1} = 47 \text{ nH}$ $L_{s2} = 68 \text{ nH}$
(Minimum inductor $Q = 40$)

Notes

- 2% tolerance matching components are recommended.
- Tuning values shown are for reference only. Optimum values may change depending upon board layout.



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