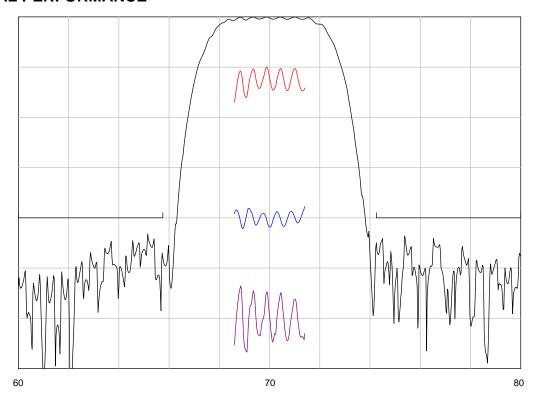
## **DESCRIPTION**

70 MHz low loss SAW filter in 19 x 6.5 mm LCC package for general communications applications.

# **TYPICAL PERFORMANCE**



Vertical from top: Relative Magnitude: 10 dB/div

Relative Magnitude: 1 dB/div
Phase Linearity: 10 deg/div
Group Delay Deviation: 100 ns/dev

#### **MAXIMUM RATING**

Parameter	Min	Max	Units
Operating Temperature Range	0	70	°C
Storage Temperature Range	-40	85	°C
Input Power Level		13	dBm

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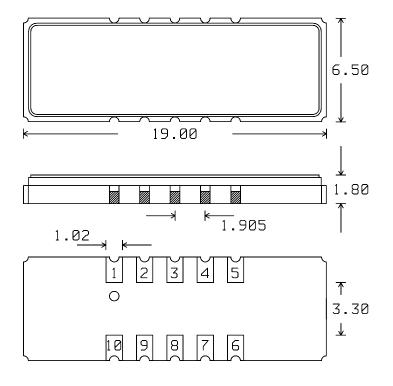
### **SPECIFICATION**

Parameter <sup>2</sup>	Min	Тур	Max	Units
Center Frequency (Fc) 1	69.88	70.00	70.12	MHz
Insertion Loss		9.7	10.0	dB
1 dB Bandwidth	2.00	2.21		MHz
3 dB Bandwidth	2.50	2.75		MHz
40 dB Bandwidth		4.37	5.10	MHz
Passband Ripple		0.6	1.0	dB p-p
Phase Linearity (70% of 3 dB Bandwidth)		3.5	9.0	deg p-p
Group Delay Variation (70% of 3 dB Bandwidth)		150	400	ns p-p
Absolute Delay		1.8		us
Ultimate Rejection	40	50		dB
Source and Load Impedance		50		Ω
Input Power		+10	+13	dBm
Temperature Coefficient of Fc		-23		ppm/°C
Ambient Temperature		25		°C

Notes:

- 1. Average of the lower and upper 3 dB band edge frequencies.
- 2. All dB levels are referenced to the insertion loss.

## **PACKAGE OUTLINE**



Units: mm

Dimensions are nominal in mm. All tolerances are  $\pm 0.15$  mm except overall length and width.

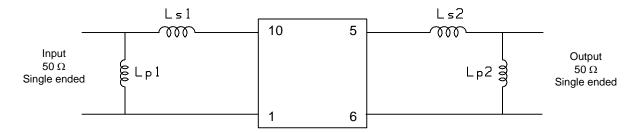
## Pin Configuration:

Input: 10
Input Return: 1
Output: 5
Output Return: 6

Ground: 2,3,4,7,8,9

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#### **MATCHING CIRCUIT**



Typical component values:

#### Notes:

- 1. Recommend use of 5% tolerance matching components.
- 2. Component values may change depending on board layout.

ISO 9001 Registered

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

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