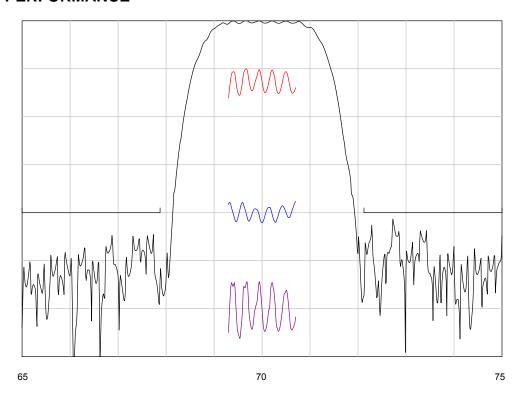
DESCRIPTION

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: 200 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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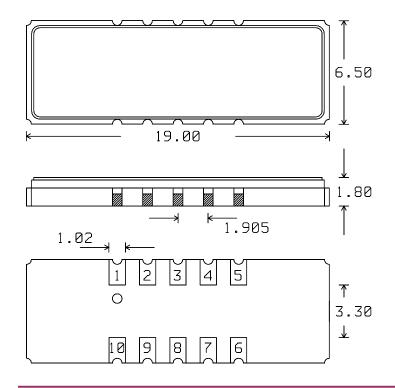
SPECIFICATION

Parameter ²	Min.	Тур.	Max.	Units.
Center Frequency (Fc) ¹	69.92	70.0	70.08	MHz
Insertion Loss		7.9	8.3	dB
1 dB Bandwidth	1.6	1.77		MHz
3 dB Bandwidth	2.0	2.24		MHz
40 dB Bandwidth		3.75	3.9	MHz
Passband Ripple (69.2 to 70.8 MHz)		0.7	1.0	dB p-p
Phase Ripple (69.2 to 70.8 MHz)		4.4	6	deg p-p
Group Delay Ripple (69.2 to 70.8 MHz)		280	340	ns p-p
Absolute Delay		1.80		us
Ultimate Rejection	40	43		dB
Temperature Coefficient of Frequency		-23		ppm/°C
Substrate Material	112 LiTaO3			
Source and Load Impedance	50		Ω	
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.
- 3. Specifications are guaranteed at 25°C only.

PACKAGE OUTLINE



Units: mm

Tolerances are typically ± 0.15 mm except for the overall length and width, which are nominal.

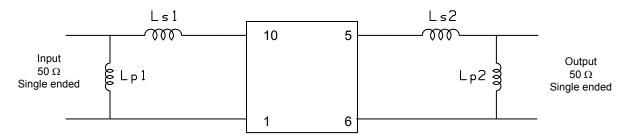
Pin Configuration:

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 2% 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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