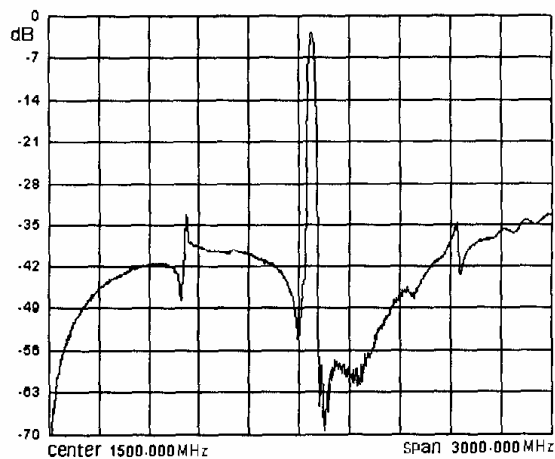
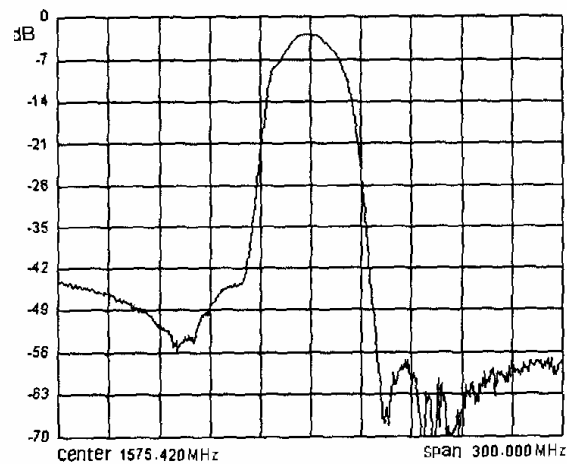




## DESCRIPTION

Miniature 1575 MHz surface acoustic wave (SAW) bandpass filter in a 3.0x3.0 mm LCC package to be used as the RF filter in Global Positioning System (GPS) equipment.

## TYPICAL PERFORMANCE





## MAXIMUM RATINGS

Parameter	Min	Max	Units
Operating Temperature Range	-40	+85	°C
Storage Temperature Range	-40	+85	°C
Input Power Level		+10	dBm
Max. D. C. Voltage between Each Terminal		10	V

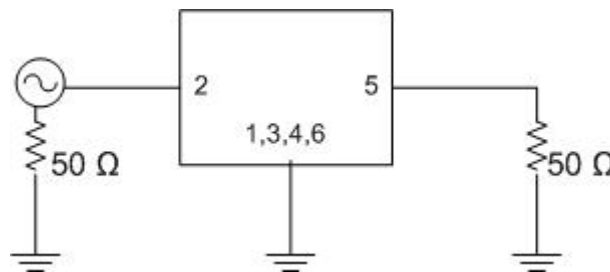
## SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency $F_c$		1575.42		MHz
Bandwidth	2.4			MHz
Insertion Loss <sup>1</sup>		1.3	1.8	dB
Passband Amplitude Ripple <sup>1</sup>			1.0	dB
Stopband Rejection <sup>2</sup> , 0 to 1450 MHz	40			dB
Stopband Rejection <sup>2</sup> , 1450 to 1500 MHz	30			dB
Stopband Rejection <sup>2</sup> , 1625 to 1640 MHz	30			dB
Stopband Rejection <sup>2</sup> , 1640 to 2000 MHz	45			dB
Stopband Rejection <sup>2</sup> , 2000 to 3000 MHz	30			dB
Terminating Impedance		50		$\Omega// 0nF$

Notes: 1. Within passband: 1574.22 to 1576.62 MHz  
2. Rejection relative to insertion loss

## TEST CIRCUIT

50 ohm single-ended  
No matching circuit required

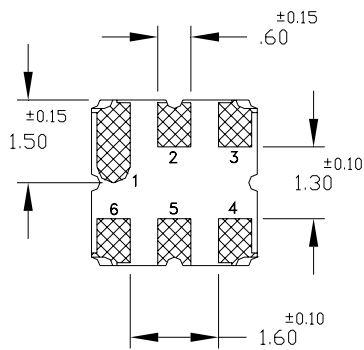
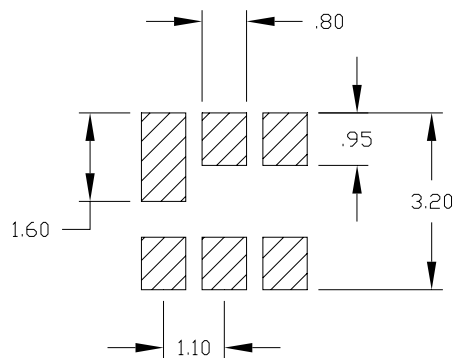
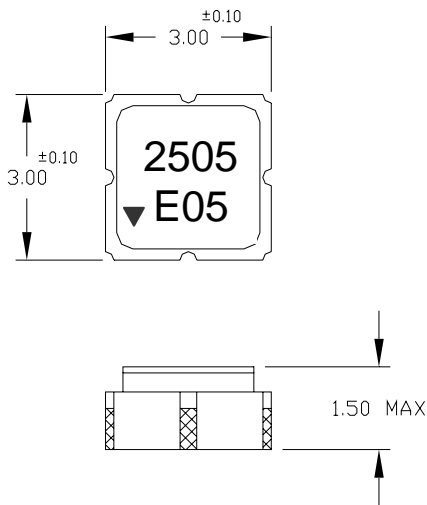




**PACKAGE OUTLINE AND SUGGESTED PCB FOOTPRINT**

3.0 X 3.0 MM, SMP

SUGGESTED PCB FOOTPRINT



PIN NO.	DESCRIPTION
2	INPUT
5	OUTPUT
1, 3, 4, 6	GROUND

NOTES:  
DIMENSIONS IN MM

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