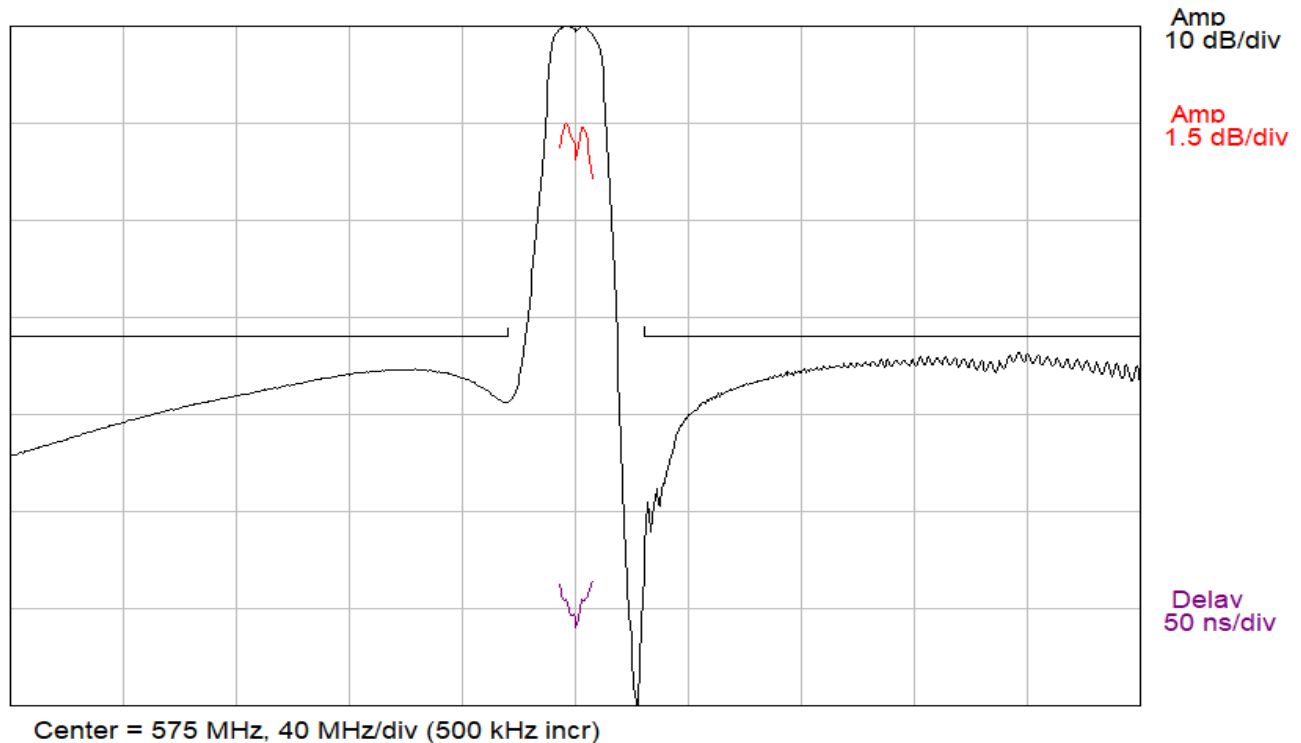


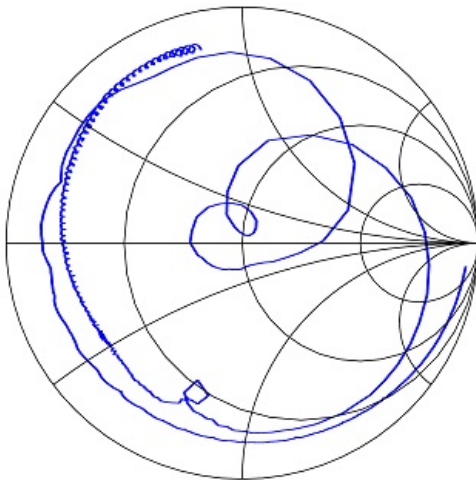
## DESCRIPTION

- 575 MHz High Power Filter with 12 MHz Bandwidth
- 7 x 5 mm Ceramic LCC Package, 10 Pads
- RoHS compliant.

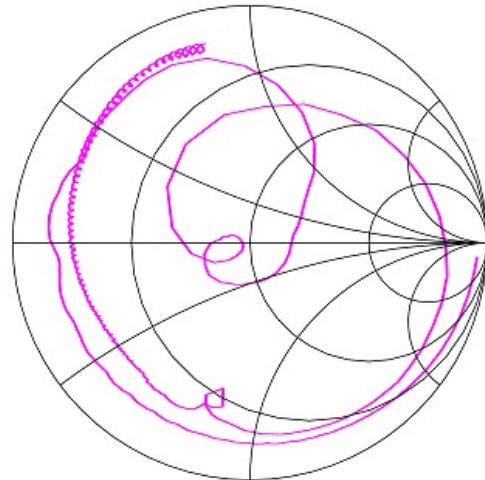
## TYPICAL PERFORMANCE



**S<sub>11</sub> (375-775 MHz)**



**S<sub>22</sub> (375-775 MHz)**



## SPECIFICATION

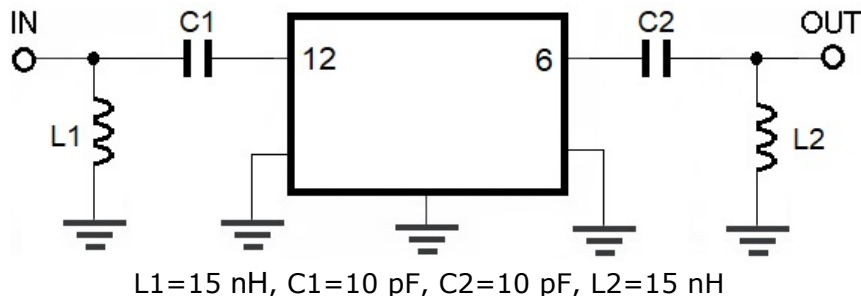
Parameter	Min	Typ	Max	Units
Minimum Insertion Loss	---	2.25	3	dB
Device Delay	---	0.0510	---	μsec
2 dB bandwidth <sup>1</sup>	12	16.430	---	MHz
Center frequency (Fc, 3 dB) <sup>1</sup>	---	574.917	---	MHz
3 dB Bandwidth <sup>1</sup>	14	17.658	---	MHz
Lower 35 dB Frequency <sup>1</sup>	551	555.852	---	MHz
Upper 35 dB Frequency <sup>1</sup>	---	589.864	599	MHz
Amplitude Ripple (569-581 MHz)	---	0.88	2	dB p-p
Group Delay Ripple (569-581 MHz)	---	25	---	ns p-p
Rejection (375-551 MHz) <sup>1</sup>	32	35.4	---	dB
Rejection (599-775 MHz) <sup>1</sup>	32	33.6	---	dB
Input Return Loss (569-581 MHz) <sup>2</sup>	8.1	13.1	---	dB
Output Return Loss (569-581 MHz) <sup>2</sup>	8.1	13.2	---	dB
Temperature Coefficient of Frequency	-40			ppm/°C
Impedance	50			ohms
Ambient Temperature	25			°C

Note: 1. Parameter value is referenced to the insertion loss value.  
2. Measured in a 50Ω system with external matching; 8.1 dB=2.3:1 VSWR.  
3. Maximum Suggested Steady-State Input Power Level.

## MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating Temperature Range	-40	85	°C
Input Power Level <sup>3</sup>	--	+32	dBm

## CIRCUIT

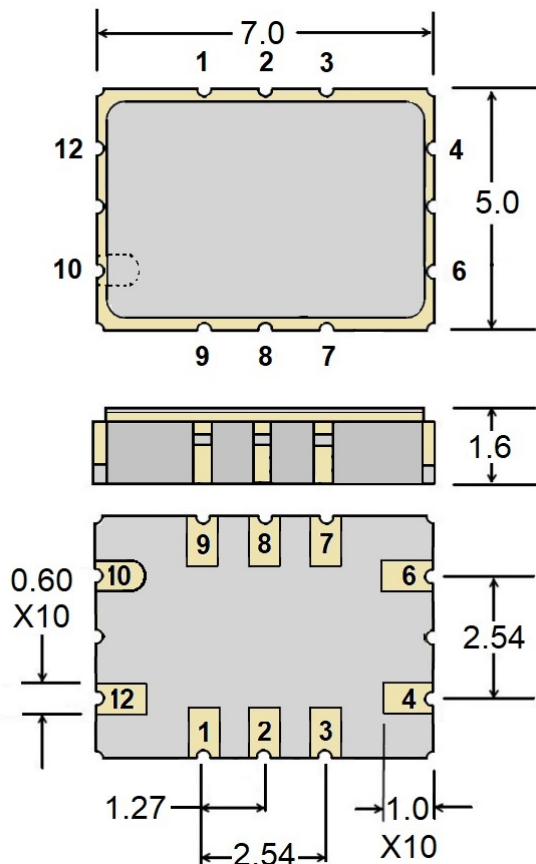


Notes:

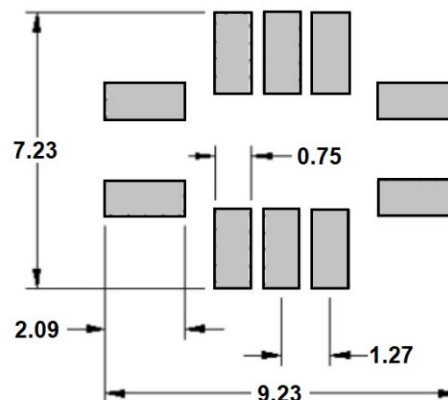
- 1) Matching components for reference only. Typical inductor Q=40)
- 2) Recommended operation is in a 50 ohm system.

## HIGH POWER SAW FILTER

### PACKAGE OUTLINE



### SUGGESTED FOOTPRINT



**Units:** mm

Typical tolerances are  $\pm 0.15$  mm except where indicated.

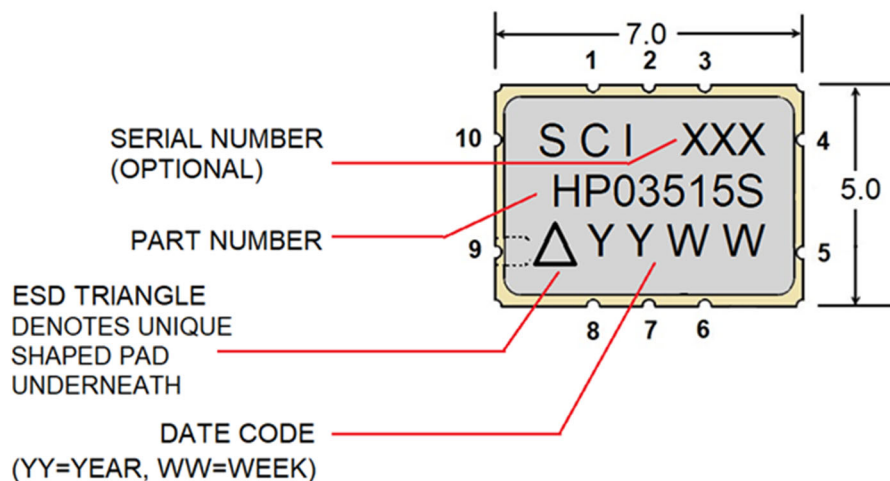
#### Pad Configuration:

Input: 12  
Output: 6  
Ground: All other pads

#### Package Material:

Body:  $Al_2O_3$  ceramic  
Lid: Kovar, Ni plated  
Terminations: Au plating 1  $\mu$ m min, over a 1.3-8.9  $\mu$ m Ni plating

### MARKING



ISO 9001  
Registered

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