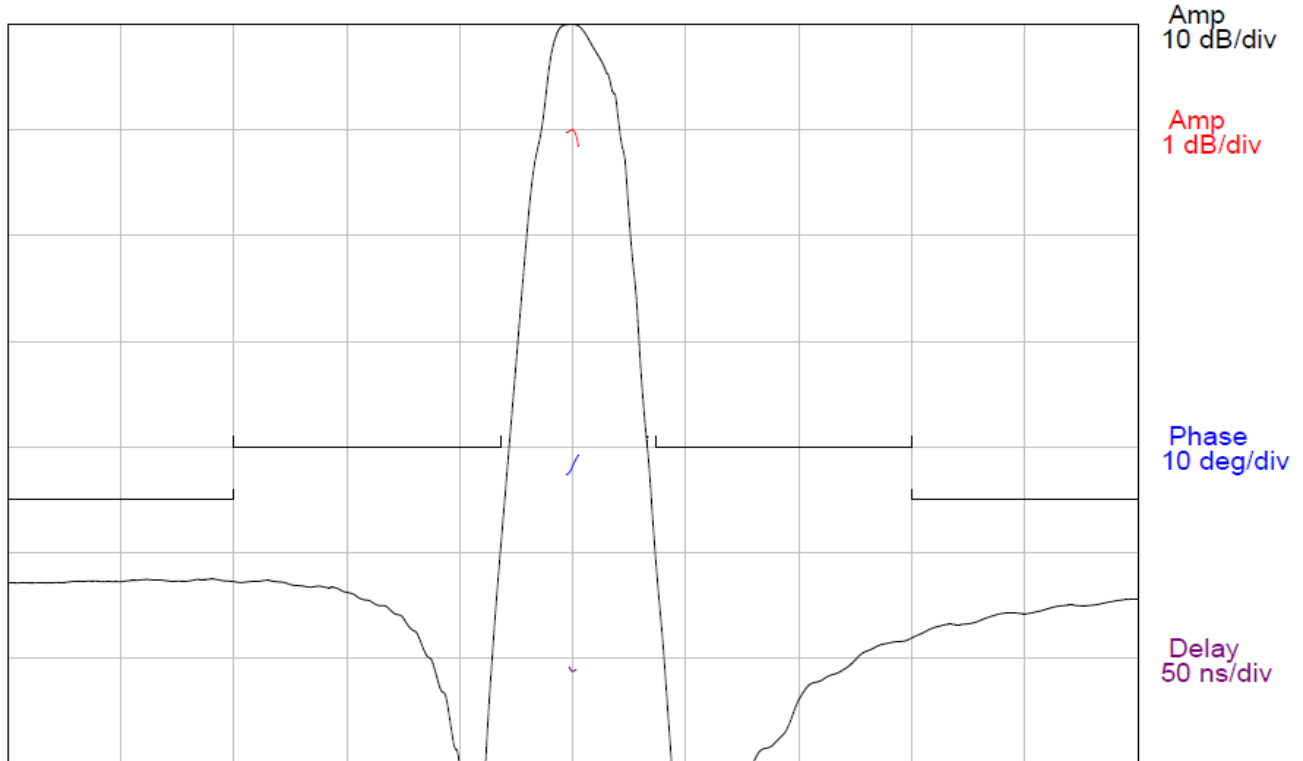


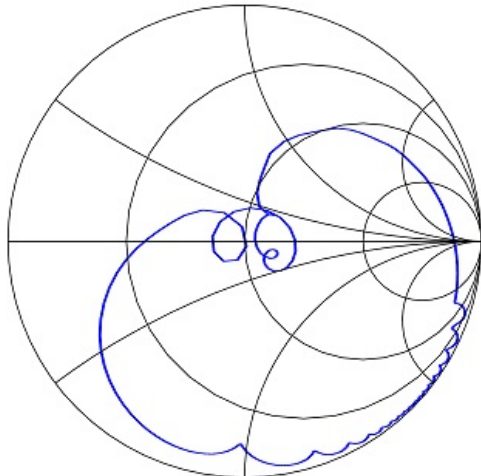
- 291.4 MHz Filter with 1 MHz bandwidth
- 5 x 5 mm Ceramic LCC Package, 8 Pads
- RoHS compliant

## SIMULATION

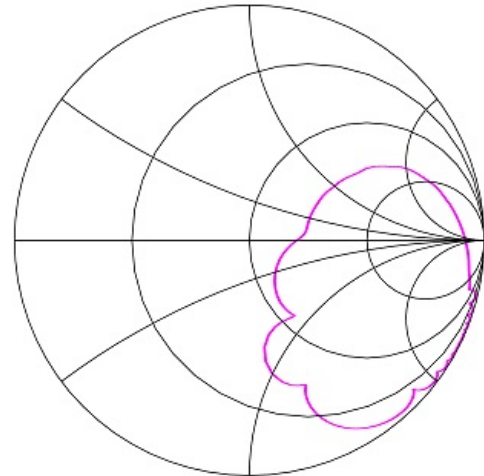
### TYPICAL PERFORMANCE



**S<sub>11</sub> (261.4-321.4 MHz)**



**S<sub>22</sub> (261.4-321.4 MHz)**



Parameter	Min	Type	Max	Units
Center Frequency, Fc, 1 dB)	---	291.4	---	MHz
Insertion Loss	---	3.1	5	dB
1 dB Bandwidth <sup>1</sup>	1	2.62	---	MHz
Lower 1 dB Frequency <sup>1</sup>	---	289.95	291.2	MHz
Upper 1 dB Frequency <sup>1</sup>	291.8	292.57	---	MHz
35 dB Bandwidth <sup>1</sup>	---	11.43	12.2	MHz
Amplitude Ripple (Fc ±0.3 MHz)	---	0.25	1	dB p-p
Group Delay Variation (Fc ±0.3 MHz)	---	60	100	ns p-p
Rejection (10-261 MHz) <sup>1</sup>	45	50	---	dB
Rejection (261-285 MHz) <sup>1</sup>	40	46	---	dB
Rejection (299.5-321 MHz) <sup>1</sup>	40	43	---	dB
Rejection (321-350 MHz) <sup>1</sup>	45	48	---	dB
Material Temperature Coefficient	-35			ppm/°C
Source and Load Impedance	50			ohms
Ambient Temperature	25			°C

Notes: 1. Parameter value is referenced to the insertion loss value.  
 2. Part is to operate in a 50 ohm single-ended system.

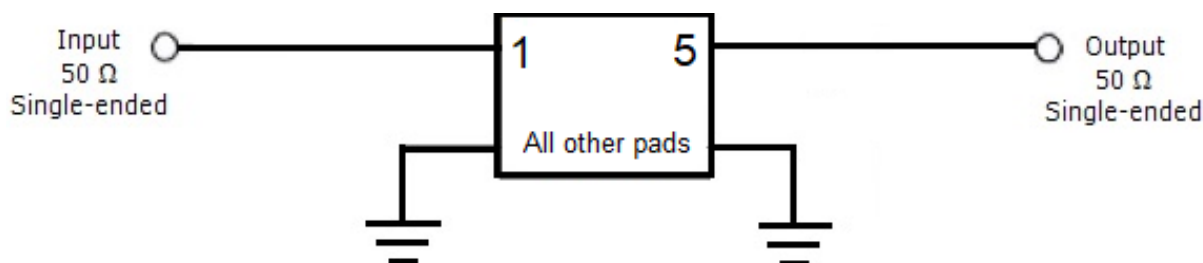
**MAXIMUM RATINGS**

Parameter	Min	Max	Units
Storage Temperature Range	-40	100	°C
Operating Temperature Range	-20	55	°C
Input Power Level	+28	+34**	dBm

\*\* to be verified

**CIRCUIT**

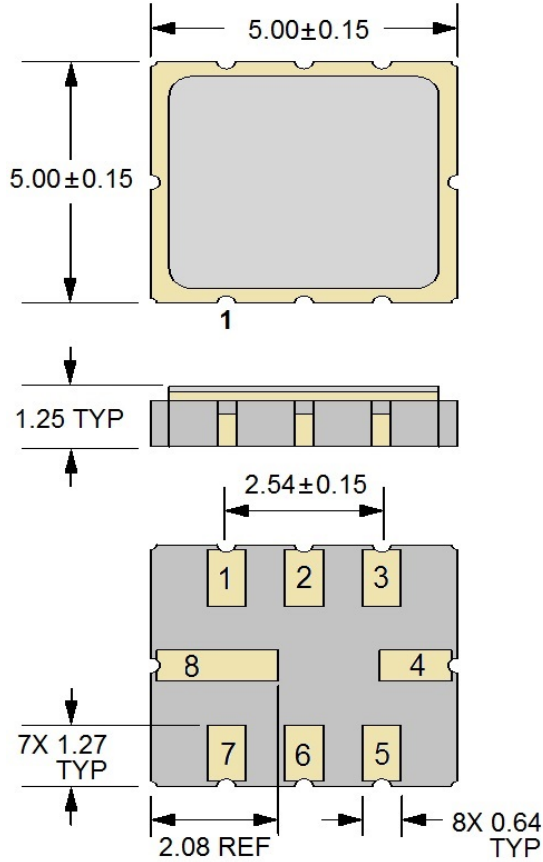
**SIMULATION**



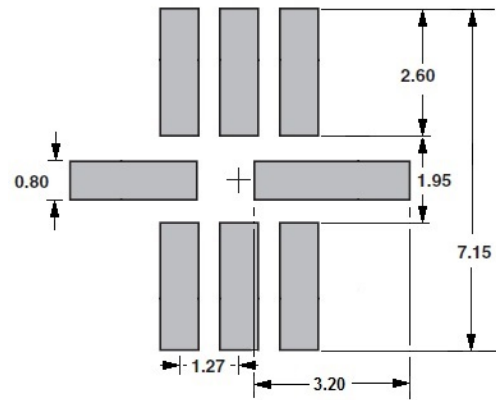
Notes:

- 1) Matching components are not required.
- 2) Recommended operation is in a 50 ohm system.

**PACKAGE OUTLINE**



**SUGGESTED FOOTPRINT**



Typical tolerances are ±0.15 mm except where indicated.

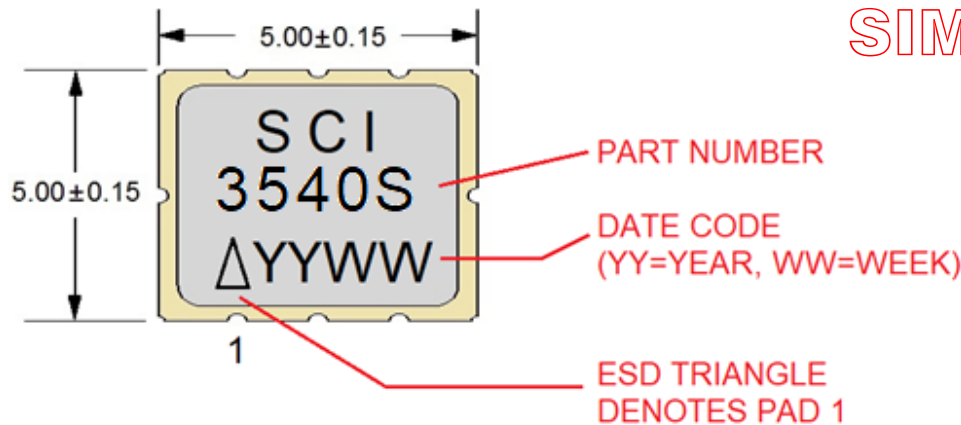
**Pad Configuration:**

- Input: 1
- Output: 5
- Ground: All other pads

**Package Material:**

Body: Al<sub>2</sub>O<sub>3</sub> ceramic  
 Lid: Kovar, Ni plated  
 Terminations: Au plating 1 um min, over a 1.3-8.9 um Ni plating

**MARKING**



**SIMULATION**

