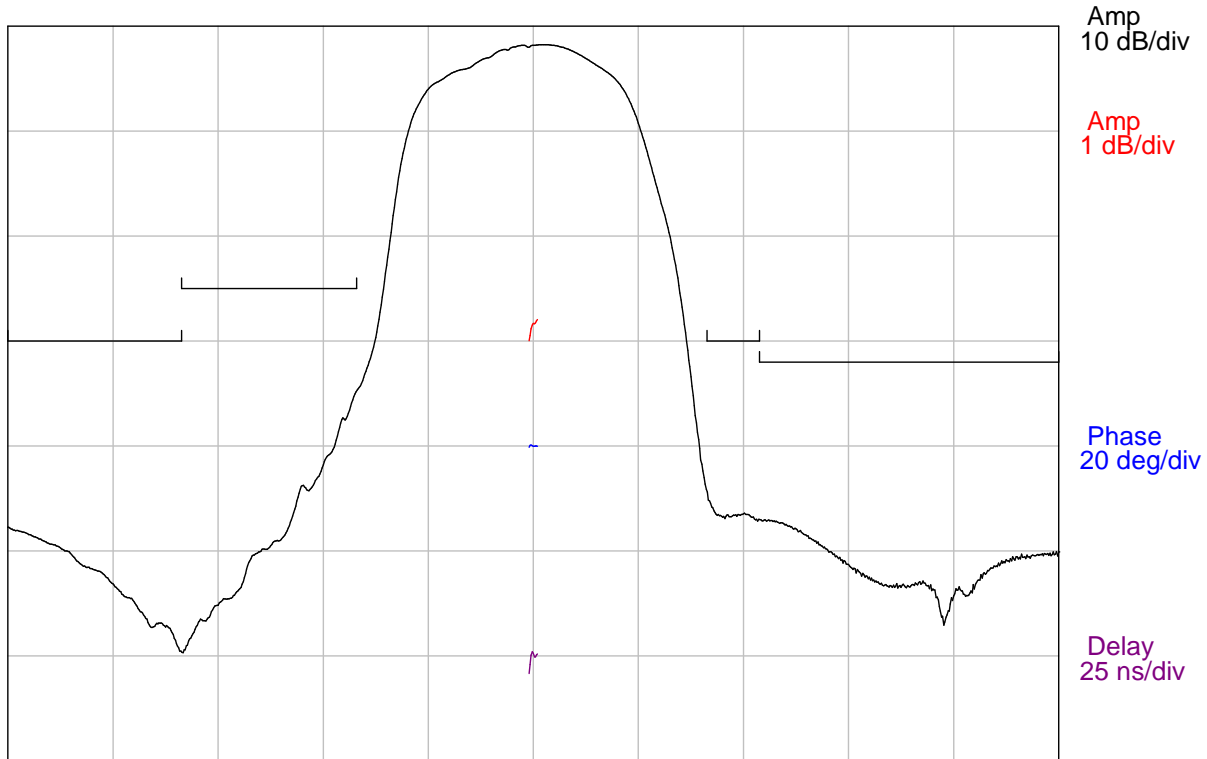


**DESCRIPTION**

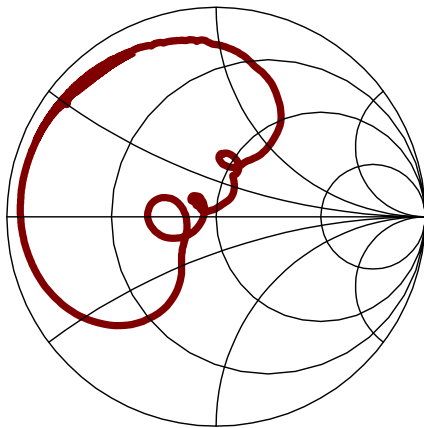
- 1575.42 MHz SAW bandpass filter with a 55 MHz bandwidth for GPS applications.
- 2.5 x 2 mm LCC package.
- RoHS compliant.

**TYPICAL PERFORMANCE**

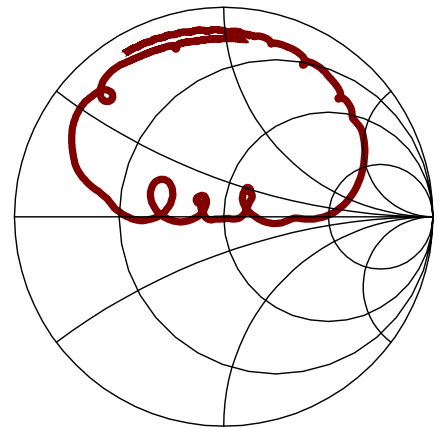


Center = 1575.42 MHz, 30 MHz/div (312.5 kHz incr)

**S11 (1325.42-1825.42 MHz)**



**S22 (1325.42-1825.42 MHz)**



## SPECIFICATION

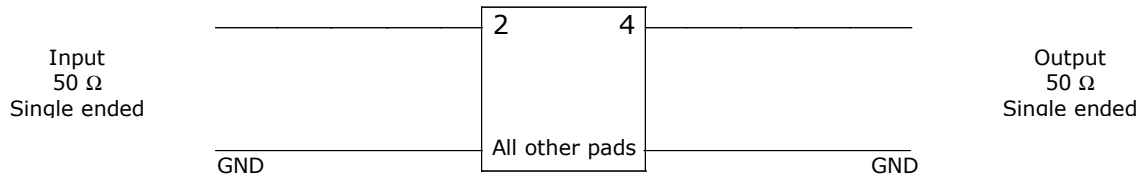
Parameter	Min	Typ	Max	Units
Center Frequency $F_C$	-	1575.4	-	MHz
Insertion Loss <sup>1</sup>	-	1.5	2.2	dB
Passband Amplitude Ripple <sup>1</sup>	-	0.1	1.0	dB
Stopband Rejection, DC to 1400 MHz <sup>2</sup>	35	37	-	dB
Stopband Rejection, 1400 to 1475 MHz <sup>2</sup>	30	34	-	dB
Stopband Rejection, 1475 to 1525 MHz <sup>2</sup>	25	37	-	dB
Stopband Rejection, 1625 to 1640 MHz <sup>2</sup>	30	45	-	dB
Stopband Rejection, 1640 to 2000 MHz <sup>2</sup>	32	34	-	dB
Stopband Rejection, 2000 to 3000 MHz <sup>2</sup>	20	28	-	dB
VSWR <sup>1</sup>	-	1.2	2.0	--
Source and Load Impedance	50			ohms
Ambient Temperature	25			°C

- Notes: 1. Defined over 1574.22 to 1576.62 MHz.  
2. Relative to 0 dB

## MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating temperature Range	-40	85	°C
Input Power Level	-	10	dBm
Max. D. C. Voltage between Each Terminal	-	5	V

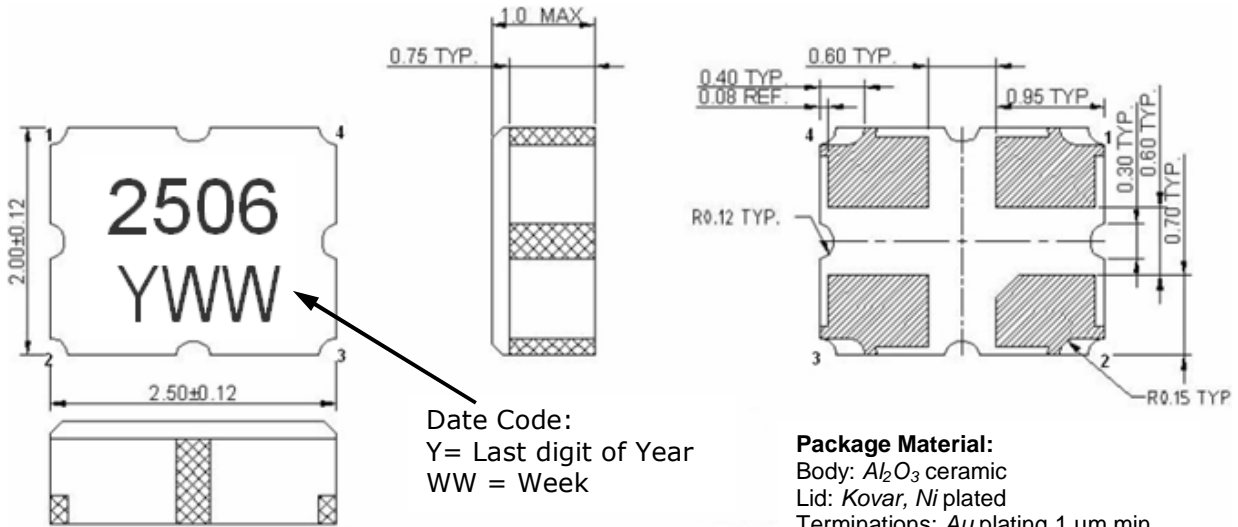
## MATCHING CIRCUIT



Notes:

- External matching components are not required.
- Device is intended to operate in a 50 Ω single ended system.

**PACKAGE OUTLINE**



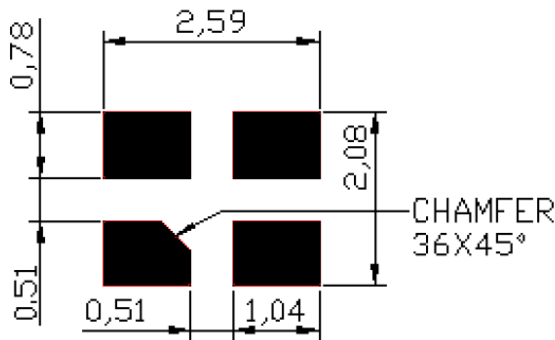
Date Code:  
 Y= Last digit of Year  
 WW = Week

**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

PAD NO.	DESCRIPTION
2	INPUT
4	OUTPUT
1,3	GROUND

**SUGGESTED FOOTPRINT**

NOTES:  
 DIMENSIONS IN MM



**ISO 9001  
 Registered**

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