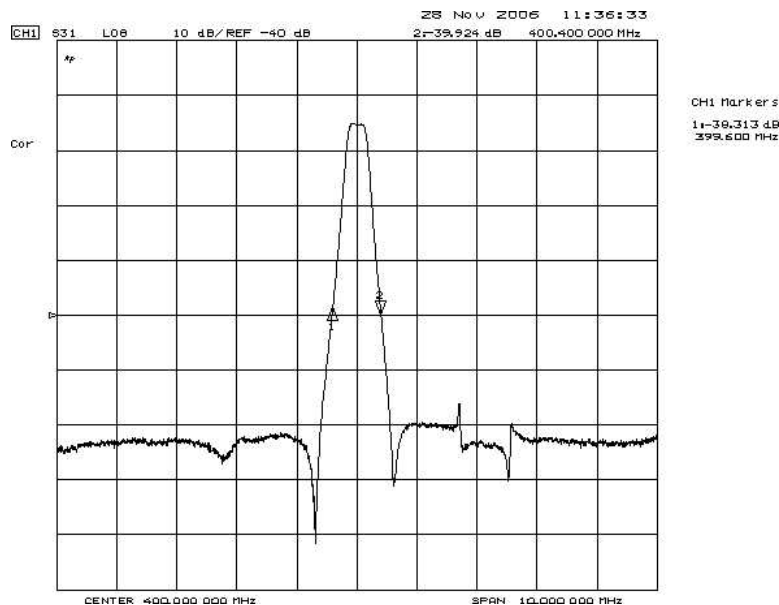
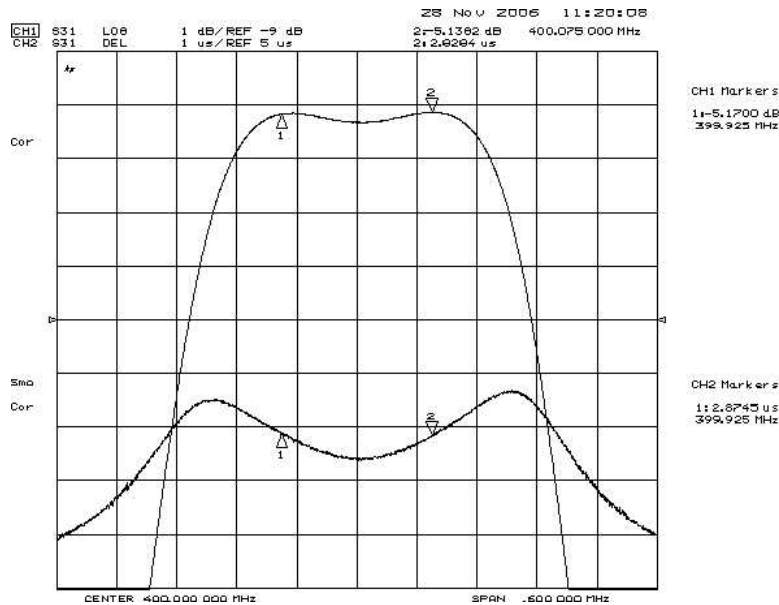


## DESCRIPTION

- 400 MHz SAW filter with a 300 KHz typical 3dB bandwidth.
- 5 x 5 mm Surface Mount Package.
- Used as the IF Filter in GSM equipment
- RoHS compliant.

## TYPICAL PERFORMANCE



## SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (Fc)	-	400	-	MHz
Insertion Loss (Fc $\pm$ 75KHz) <sup>1</sup>	-	4.2	6	dB
Insertion Loss (Fc $\pm$ 75KHz) <sup>2</sup>	-	5.2	7.5	dB
Amplitude Ripple (Over Fc $\pm$ 75KHz)	-	0.3	2.0	dB
Rejection, (300 to 398.5 MHz)	35	-	-	dB
Rejection (398.5 to 399.2 MHz)	20	-	-	dB
Rejection (399.2 to 399.4 MHz)	10	-	-	dB
Rejection (399.4 to 399.6 MHz)	7	-	-	dB
Rejection (400.4 to 400.6 MHz)	7	-	-	dB
Rejection (400.6 to 400.8 MHz)	10	-	-	dB
Rejection (400.8 to 401.5 MHz)	20	-	-	dB
Rejection (401.5 to 500 MHz)	35	-	-	dB
Group Delay Variation (Fc $\pm$ 75KHz)	-	0.6	2.0	$\mu$ sec

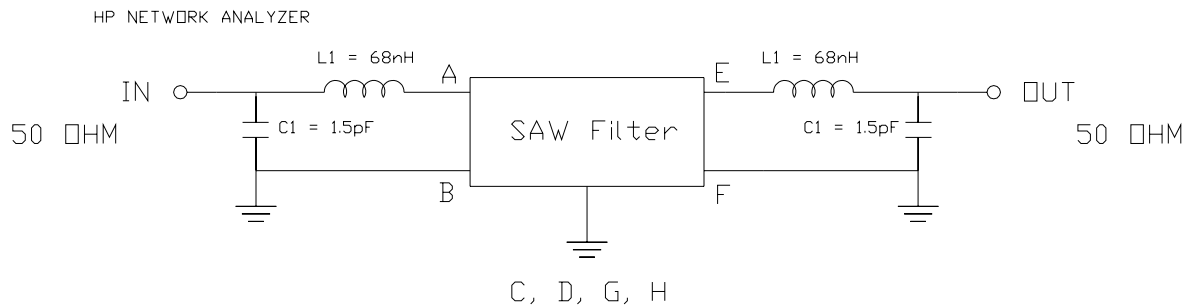
Note: <sup>1</sup> Excludes loss in matching elements.  
<sup>2</sup> Includes loss in matching elements.

## MAXIMUM RATINGS

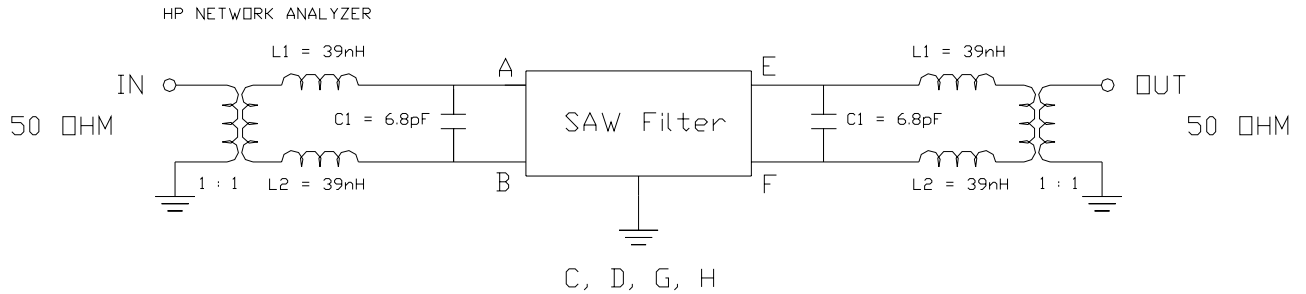
Parameter	Min	Max	Units
Storage Temperature Range	-40	+85	°C
Operating Temperature Range	-20	+75	°C
DC Permissive Voltage		3	VDC
Input Power Level	-	10	dBm

## MATCHING CIRCUIT

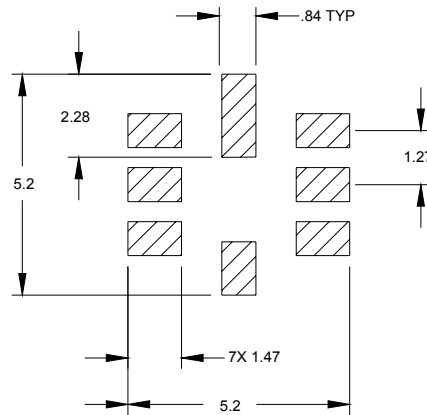
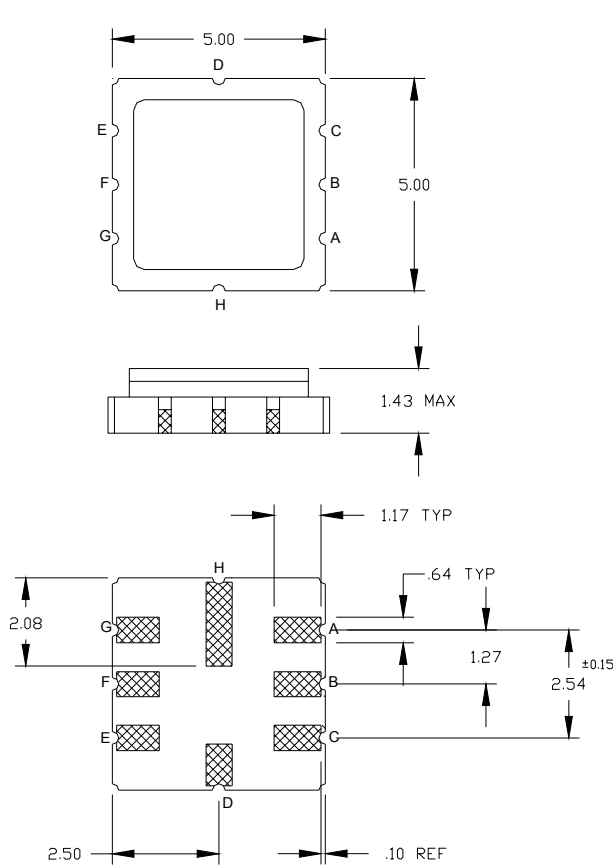
50 Ohm Test Circuit (Single-ended / Single –ended)



**50 Ohm Test Circuit (Balanced-ended / Balanced-ended)**



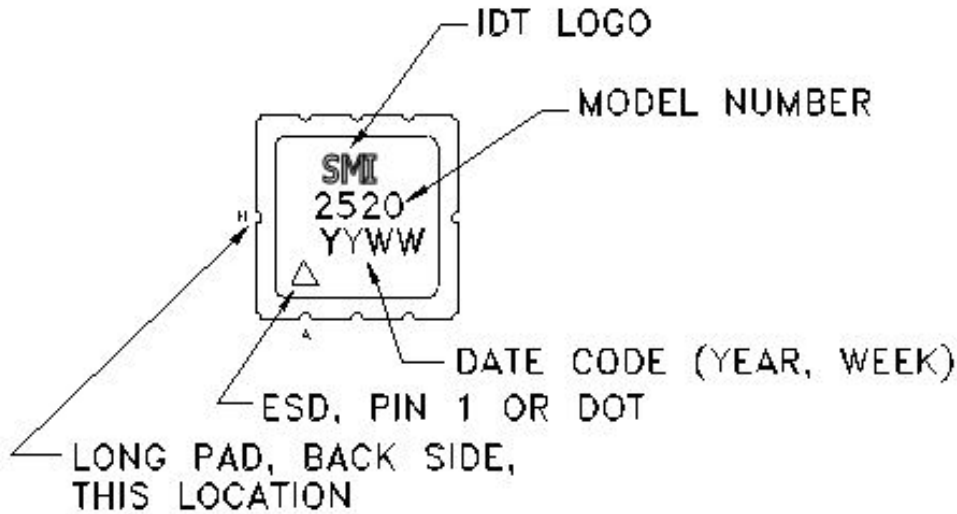
**PACKAGE OUTLINE**



	Balanced	Unbalanced
Pin A	Input 1	Input
Pin B	Input 2	Ground
Pin C	Ground	Ground
Pin D	Ground	Ground
Pin E	Output 1	Output
Pin F	Output 2	Ground
Pin G	Ground	Ground
Pin H	Ground	Ground

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 Microwave reserves the right to make changes without notice.  
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