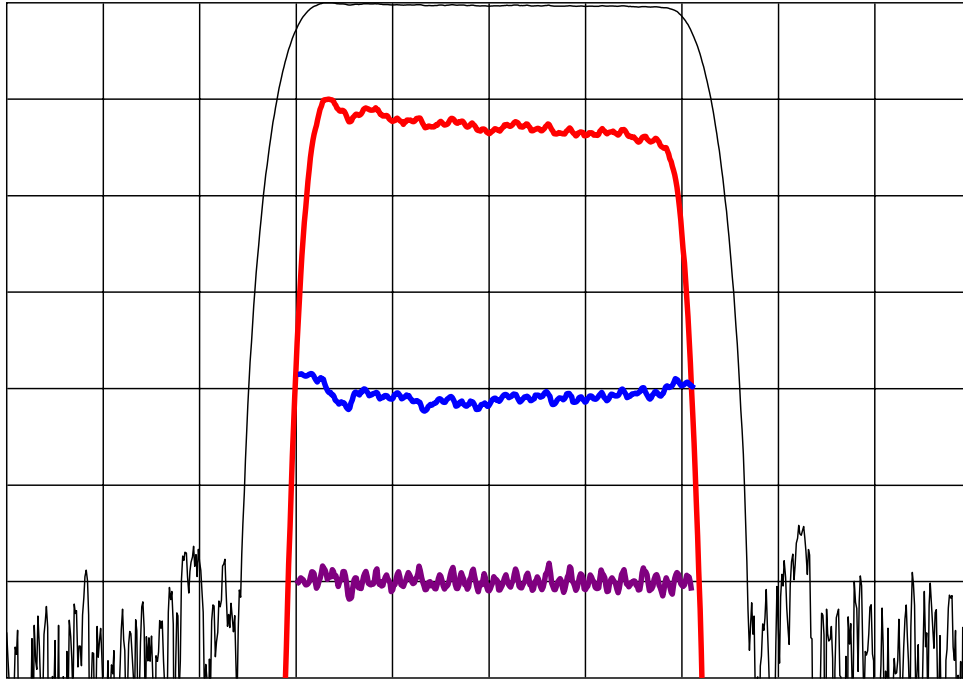


## DESCRIPTION

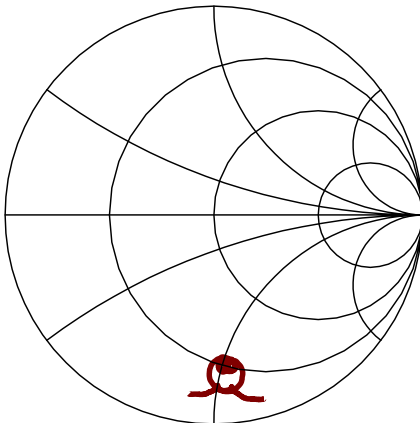
- 130 MHz SAW filter with 18 MHz bandwidth.
- 22 x 12 mm DIP package.
- RoHS compliant.

## TYPICAL PERFORMANCE

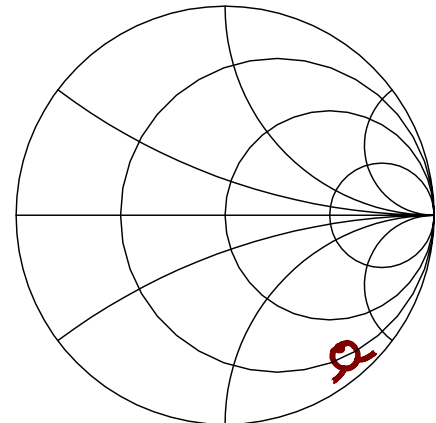


Horizontal: Frequency : 5 MHz/div  
Vertical from Top: Relative Magnitude : 10 dB/div  
Relative magnitude : 1 dB/div  
Phase : 5 deg/div  
Group Delay : 50 ns/div

**S11 (105 to 155 MHz)**



**S22 (105 to 155 MHz)**



## SPECIFICATION

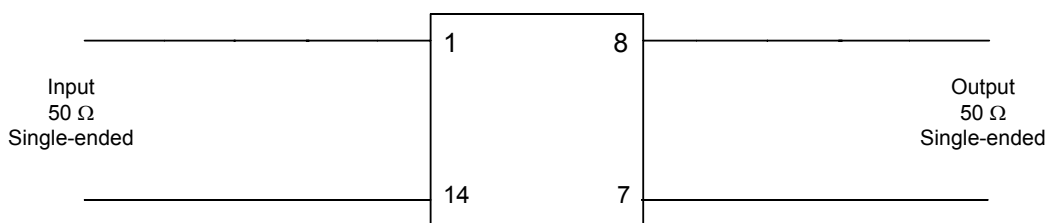
PARAMETER	Min	Typ	Max	Units
Center Frequency (Fc) <sup>1</sup>	-	130.00	-	MHz
Insertion Loss	-	26.5	30.0	dB
Lower 1dB Band Edge	-	120.30	121.00	MHz
Upper 1dB Band Edge	139.00	139.60	-	MHz
Lower 40dB Band Edge	116.50	117.30	-	MHz
Upper 40dB Band Edge	-	142.70	143.50	MHz
Passband Amplitude Variation <sup>2</sup>	-	0.4	0.8	dB p-p
Group Delay Variation <sup>2,3</sup>	-	9	15	ns p-p
Rejection (75 MHz to 116.5 MHz)	45	50	-	dB
Rejection (143.5 MHz to 210 MHz)	40	45	-	dB
Source and Load Impedance	-	50	-	$\Omega$
Ambient Temperature (Tref)	-	23	-	$^{\circ}$ C

- Notes:
1. Average of the lower and upper 3 dB band edge frequencies.
  2. Specification applies over a 121 to 139 MHz frequency span.
  3. A smoothing aperture of 1% of span and averaging of 16 may be applied to this measurement.
  4. Typical change of filter frequency response with temperature is  $\Delta f = (T - T_{ref}) * T_c * F_c$ , in ppm.

## MAXIMUM RATINGS

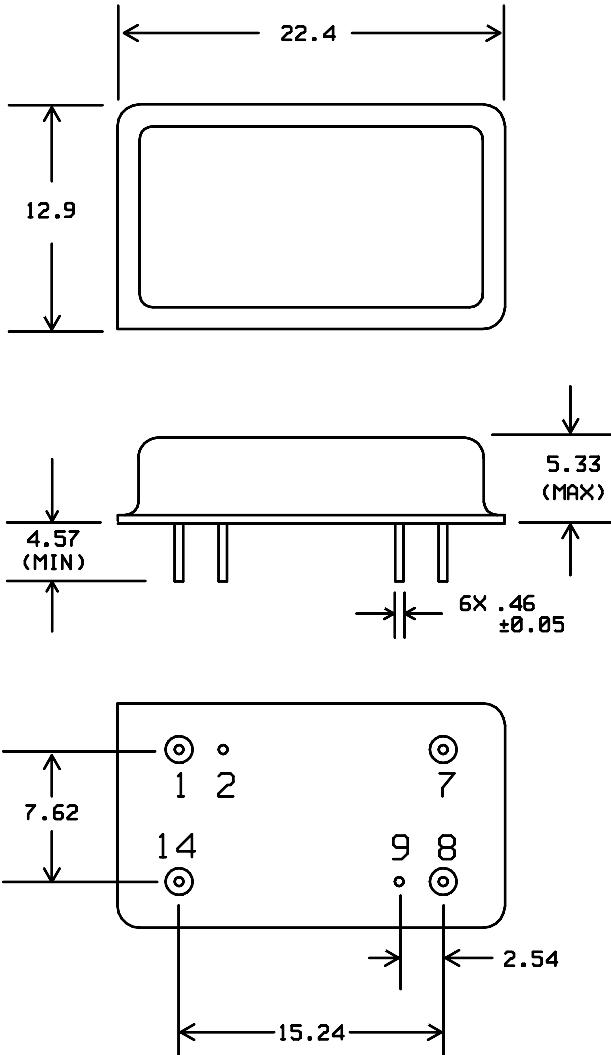
Parameter	Min	Typ	Max	Units
Storage Temperature Range	-40	40	85	$^{\circ}$ C
Temperature Coefficient of Frequency (Tc) <sup>4</sup>	-	-74	-	ppm/ $^{\circ}$ C
Input Power Level	-	0	10	dBm

## MATCHING CIRCUIT



Note: External matching components are not required.

**PACKAGE OUTLINE**



**Units: mm**

Dimensions are nominal in mm. All tolerances are  $\pm 0.15$  mm except overall length and width unless otherwise indicated.

**Pin Configuration:**

Input:	1
Input Return:	14
Output:	8
Output Return:	7
Ground:	2, 9

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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