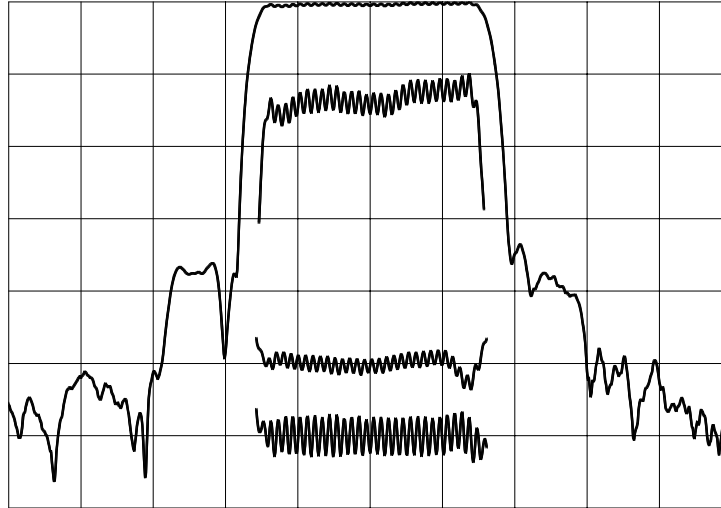


## TYPICAL PERFORMANCE



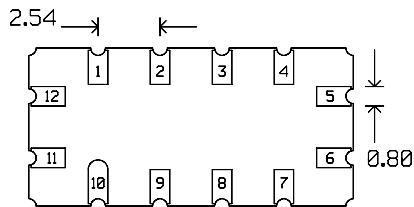
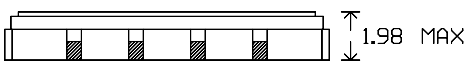
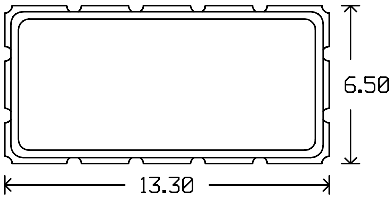
Horizontal: 6 MHz/div      Vertical (from top): Magnitude      10.1 dB/div  
 Phase Deviation      10 deg/div  
 Group Delay Variation      100 ns/div

## SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (Fc) <sup>1</sup>	139.6	140	140.4	MHz
Insertion Loss		10	12	dB
1 dB Bandwidth	17.25	18.2		MHz
3 dB Bandwidth	18	19.2		MHz
30 dB Bandwidth		22.2	23	MHz
40 dB Bandwidth		34	48	MHz
Passband Ripple		0.7	1	dB
Phase Deviation from Linear <sup>2</sup>		5	10	deg
Group Delay Variation <sup>2</sup>		85	120	ns
Absolute Delay		0.82		µs
Substrate		LiNbO <sub>3</sub>		-
Temperature Coefficient of Frequency (Tc) <sup>3</sup>		-90		ppm/°C
Ambient Temperature		25		°C
System Source and Load Impedance		50		Ω

- Notes: 1. Average of lower & upper 3 dB frequencies.  
 2. Evaluated over 80% of the 3 dB bandwidth.  
 3. Typical change of filter frequency response with temperature is  $\Delta f/f_{ref} = (T-T_{ref}) \cdot Tc$  ppm.

## PACKAGE OUTLINE

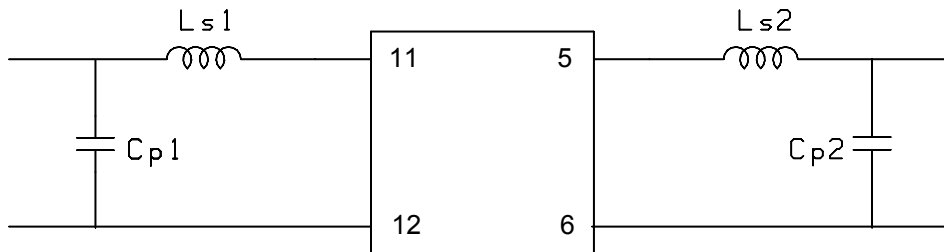


Units: mm

### Pin Configuration:

Input: 11  
Input Return: 12  
Output: 5  
Output Return: 6  
Ground: 1,2,3,4,7,8,9,10

## MATCHING CIRCUIT



Component values in 50  $\Omega$ :  
(Minimum Q = 40)

Ls1 = 120 nH  
Cp1 = 22 pF

Ls2 = 120 nH  
Cp2 = 10 pF

### Notes

- Optimum component values may change depending on board layout. The values shown here are intended as a guide only.

ISO 9001  
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