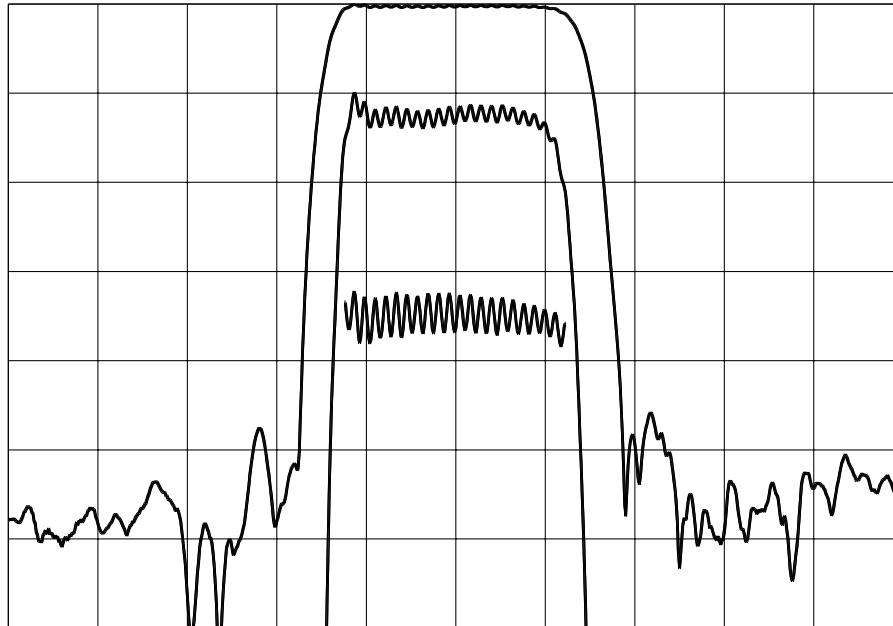




## TYPICAL PERFORMANCE



Horizontal: 4.0 MHz/div    Vertical (from top):    Magnitude    10 dB/div  
 Magnitude    1 dB/div  
 Group Delay    100 ns/div

## SPECIFICATION

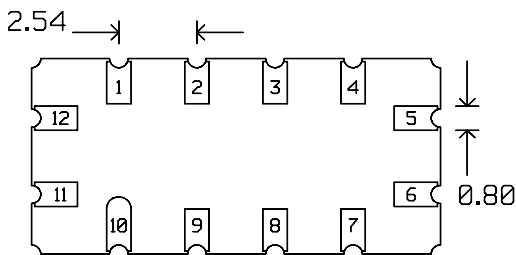
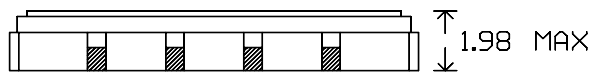
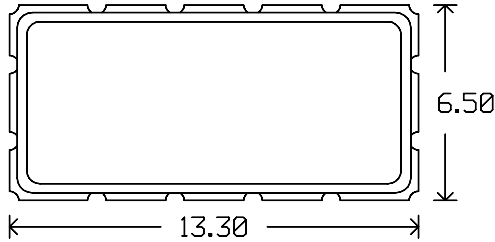
Parameter	Min.	Typ.	Max.	Units.
Center Frequency ( Fc) <sup>1</sup>	139.6	140.0	140.4	MHz
Insertion Loss		10.2	11.0	dB
1 dB Bandwidth	8.0	10.2		MHz
3 dB Bandwidth	10.0	11.1		MHz
35 dB Bandwidth		14.0	15.0	MHz
Passband Ripple <sup>2</sup>		0.5	1.0	dB p-p
Phase Ripple <sup>2</sup>		6.0	15	deg p-p
Group Delay Ripple <sup>2</sup>		75	120	ns p-p
Absolute Delay		1.06		us
Ultimate Rejection	40	50		dB
Temperature Coefficient of Frequency		-94		ppm/° C
Substrate Material	YZ Lithium Niobate			
Source and Load Impedance	50			Ω
Ambient Temperature	25			° C

### Notes:

1. Mean Value of 3 dB points. 3dB measured from peak.
2. Measured over 90% of 3 dB Bandwidth



**PACKAGE OUTLINE**

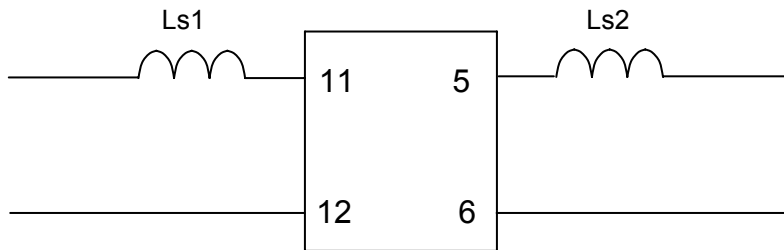


**Units:** mm

**Pin Configuration:**

Input: 11  
 Input Return: 12  
 Output: 5  
 Output Return: 6  
 Ground: All other pins

**MATCHING CIRCUIT**



Component values:

Ls1 = 47 nH      Ls2 = 100 nH      (Minimum Q = 45)

**Notes**

1. Recommend use of 5% tolerance components.
2. Optimum values depend on board layout. Values intended as guide only.

