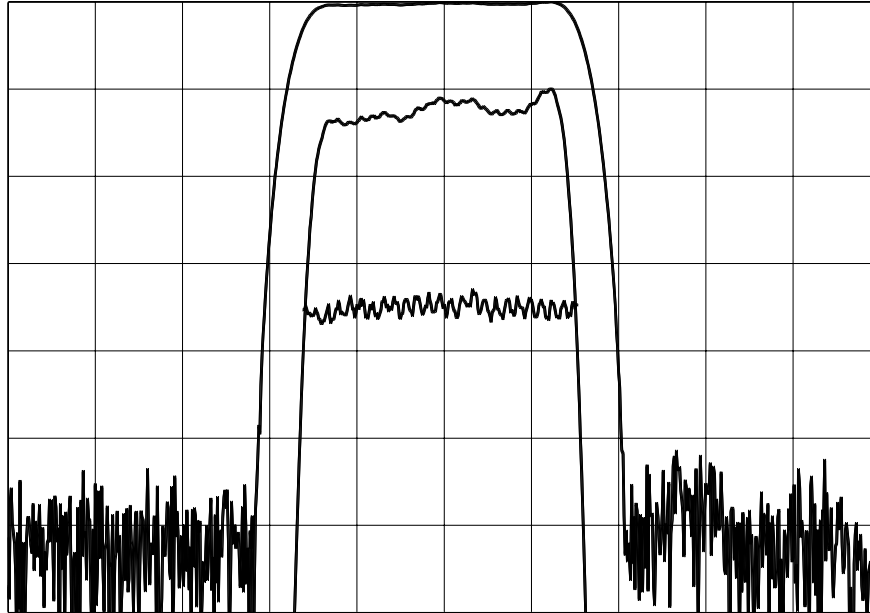


**TYPICAL PERFORMANCE**



Horizontal: 2.0 MHz/div    Vertical (from top):  
 Magnitude 10 dB/div  
 Magnitude 1 dB/div  
 Group Delay 100 ns/div

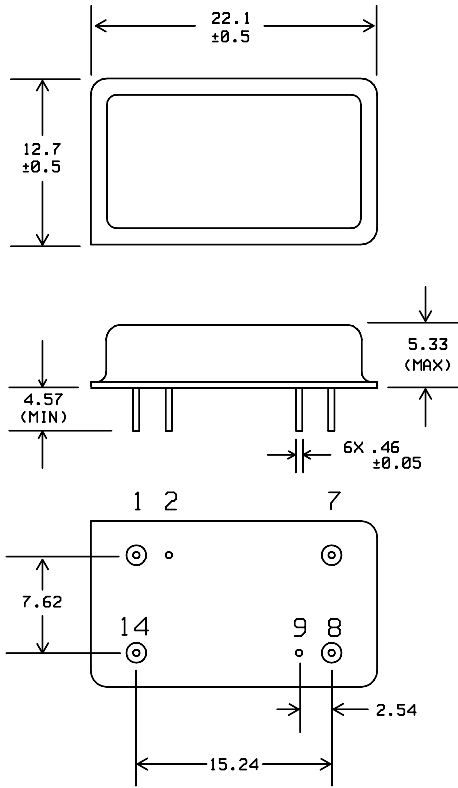
**SPECIFICATION**

Parameter	Min.	Typ.	Max.	Units.
Center Frequency ( Fc ) <sup>1</sup>	139.8	140.0	140.2	MHz
Insertion Loss at Fc		24.0	26.0	dB
1 dB Bandwidth	5.6	5.8		MHz
3 dB Bandwidth	6	6.3		MHz
40 dB Bandwidth		8.2	8.4	MHz
Passband Ripple		0.4	0.7	dB p-p
Phase Ripple		3.0	4	deg p-p
Group Delay Ripple		45	110	ns p-p
Absolute Delay		1.94		us
Ultimate Rejection	50	55		dB
Substrate Material	Quartz			
Source and Load Impedance	50			Ω
Ambient Temperature	25			° C

Notes:

1: Mean Value of 3 dB band edges.

**PACKAGE OUTLINE**

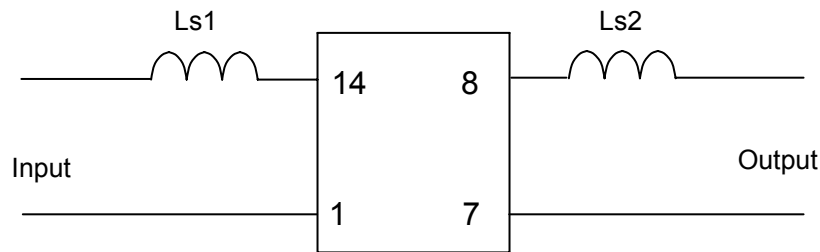


**Units:** mm

**Pin Configuration:**

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

**MATCHING CIRCUIT**



Component values :

Ls1 = 510 nH      Ls2 = 560 nH      (Minimum Q = 45)

Notes

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

