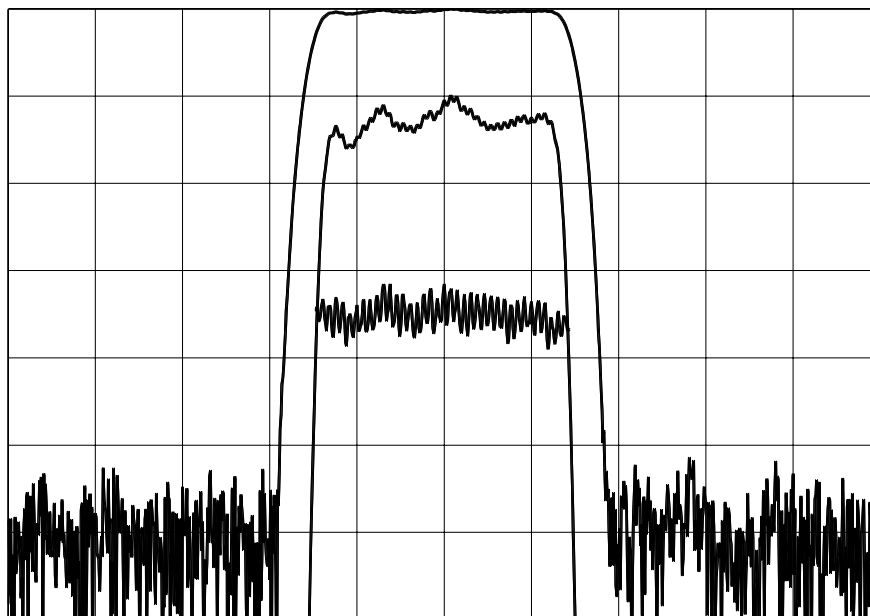




TYPICAL PERFORMANCE



Horizontal: 2.5 MHz/div Vertical (from top): Magnitude 10 dB/div
Magnitude 1 dB/div
Group Delay 100 ns/div

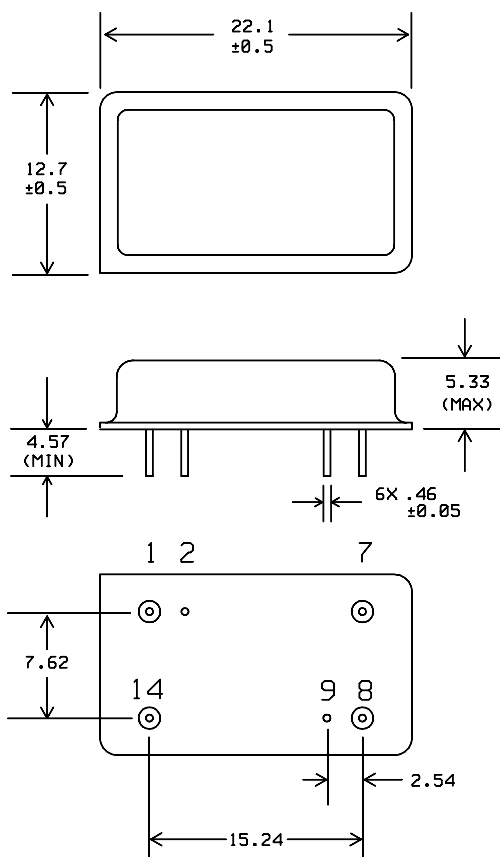
SPECIFICATION

Parameter	Min.	Typ.	Max.	Units.
Center Frequency (Fc) ¹	139.8	140.0	140.2	MHz
Insertion Loss at Fc		24.0	27	dB
1 dB Bandwidth	6.5	6.8		MHz
3 dB Bandwidth	7	7.3		MHz
40 dB Bandwidth		9.0	9.2	MHz
Passband Ripple		0.5	0.7	dB p-p
Phase Ripple		5.0	6.0	deg p-p
Group Delay Ripple		70	130	ns p-p
Absolute Delay		2.6		us
Ultimate Rejection	50	55		dB
Temperature Coefficient of Frequency		-18		ppm/° C
Substrate Material	112 Lithium Tantalate			
Source and Load Impedance	50			Ω
Ambient Temperature		25		° C

Notes:

1: Mean Value of 3 dB band edges.

PACKAGE OUTLINE

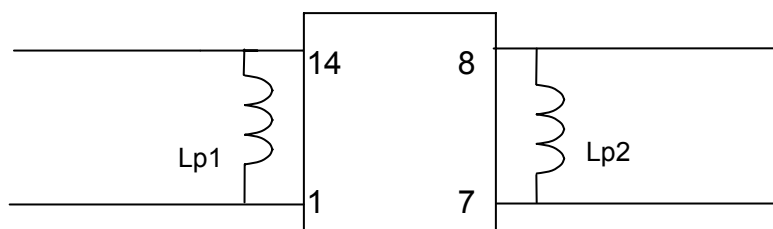


Units: mm

Pin Configuration:

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

MATCHING CIRCUIT



Component values :

$L_{p1} = 22$ nH $L_{p2} = 120$ nH (Minimum Q = 45)

Notes

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

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