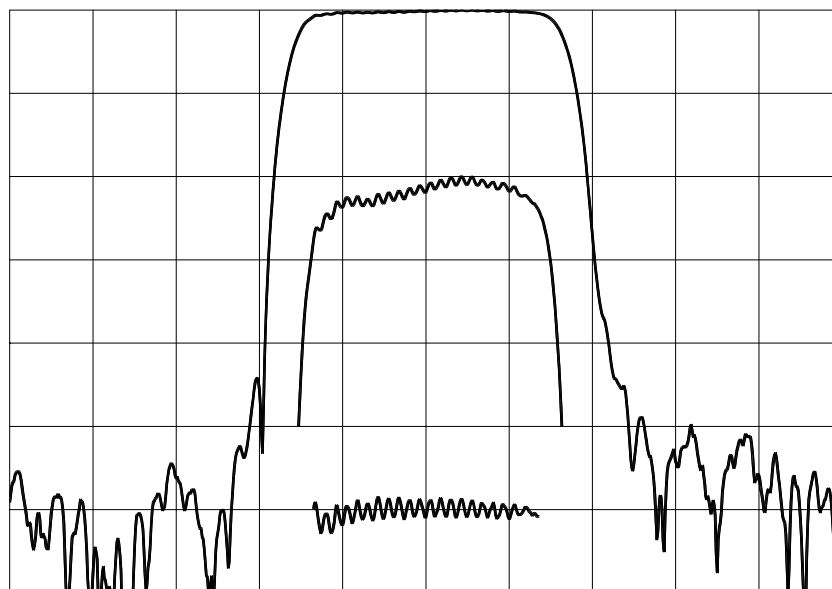


TYPICAL PERFORMANCE



Horizontal: 4 MHz/div

Vertical (from top):

Magnitude

10,1

dB/div

Group Delay Deviation

100

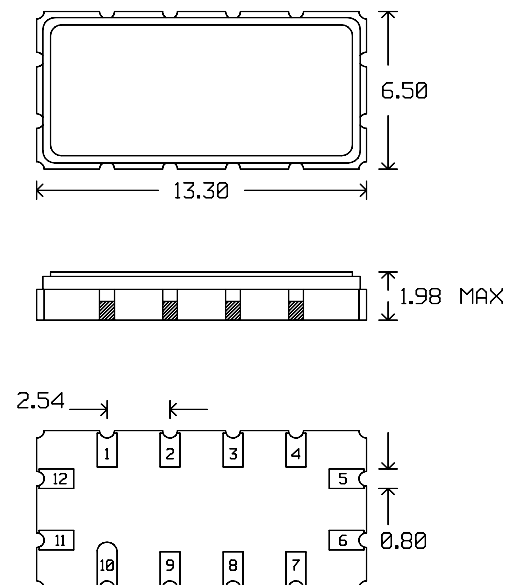
ns/div

SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	139.6	140.0	140.4	MHz
Insertion Loss		10.4	12.5	dB
1 dB Bandwidth	10.2	11.7		MHz
3 dB Bandwidth	12.0	12.7		MHz
35 dB Bandwidth		16.1	21.3	MHz
Passband Ripple ²		0.74	1.0	dB p-p
Phase Ripple ²		10	15	deg p-p
Group Delay Ripple ²		50	120	ns p-p
Absolute Delay		1.0		us
Ultimate Rejection	40	47		dB
Temperature Coefficient of Frequency		-90		ppm/°C
Substrate Material	YZ Lithium Niobate			
Source and Load Impedance		50		Ω
Ambient Temperature		25		°C

- Notes:
1. Average of lower and upper 3 dB frequencies.
 2. Measured over 90% of the 3 dB bandwidth.
 3. Typical change of filter frequency response with temperature is $\Delta f/f_{ref} = (T - T_{ref}) \cdot T_c$ ppm.

PACKAGE OUTLINE

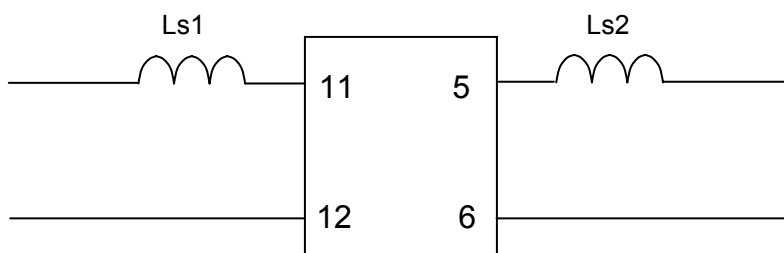


Units: mm

Pin Configuration:

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

MATCHING CIRCUIT



Component values:

Ls1 = 120 nH

Ls2 = 82 nH

(Minimum Q = 45)

Notes

1. Recommended component tolerance: 5%
2. Optimum values may change depending on board layout. The values shown here are intended as a guide only.

ISO 9001
 Registered

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