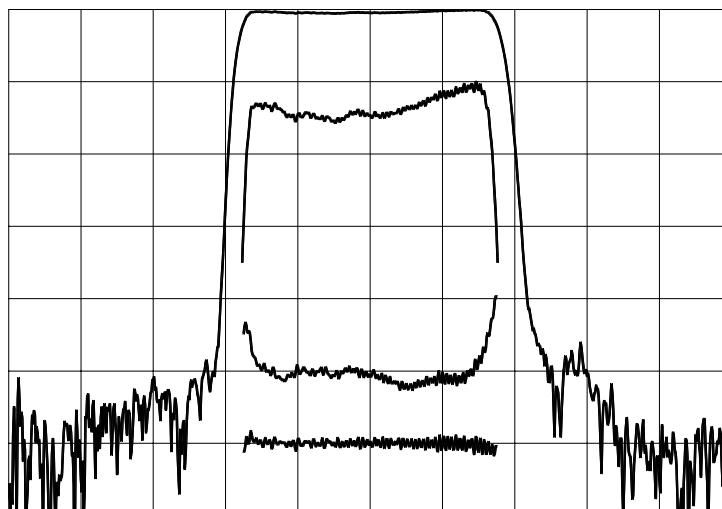


TYPICAL PERFORMANCE

PRELIMINARY



Horizontal: 8 MHz/div Vertical (from top): Magnitude 10 dB/div
Magnitude 1 dB/div
Phase Deviation 5 deg/div
Group Delay Variation 100 ns/div

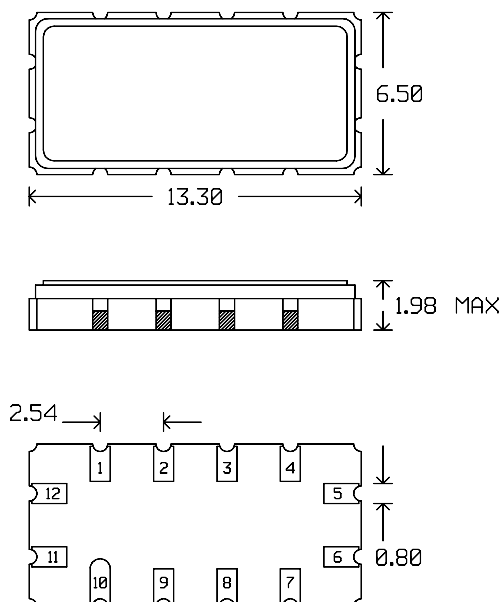
SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	69.8	70.00	70.2	MHz
Insertion Loss		18.2	19.0	dB
1 dB Bandwidth	27.2	27.5		MHz
3 dB Bandwidth	28.0	28.6		MHz
40 dB Bandwidth		34.2	34.65	MHz
Passband Ripple		0.6	1.0	dB
Phase Deviation from Linear ²		3	11.5	deg
Group Delay Variation ²		30	120	ns
Absolute Delay		1.12		μs
Substrate		LiNbO ₃		-
Temperature Coefficient of Frequency (Tc) ³		-90		ppm/°C
Ambient Temperature		25		°C
System Source and Load Impedance		50		Ω

- Notes: 1. Average of lower & upper 3 dB frequencies (3 dB measured from peak).
2. Evaluated 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

PRELIMINARY

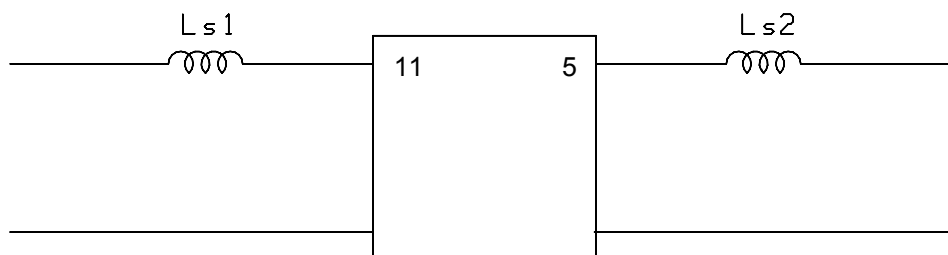


Units: mm

Pin Configuration:

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

MATCHING CIRCUIT



Component values in 50 Ω : Ls1 = 120 nH
(Minimum Q = 40)

Ls2 = 100 nH

Notes

- Optimum component values may change depending on board layout. The values shown here are intended as a guide only.
- Requires 2% matching components.