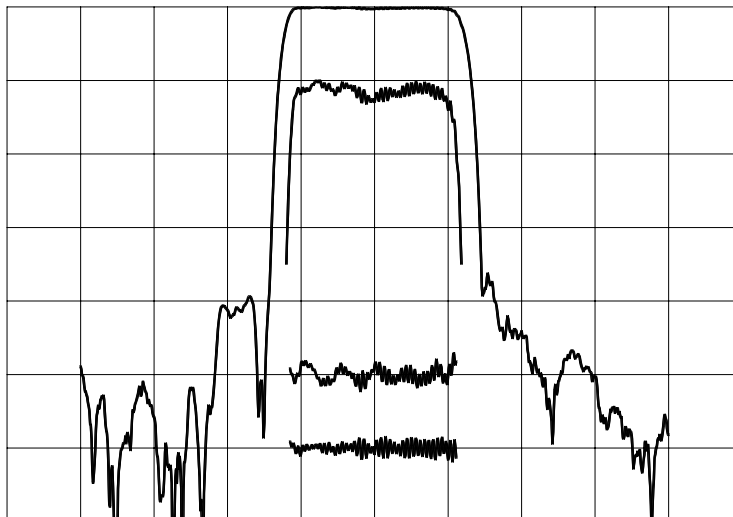


TYPICAL PERFORMANCE



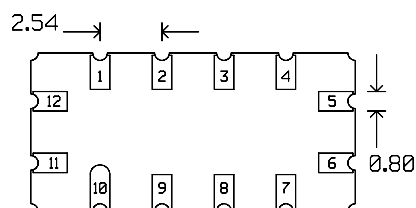
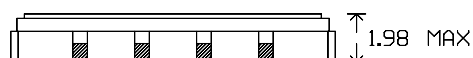
Horizontal: 10 MHz/div Vertical (from top):
 Magnitude 10 dB/div
 Magnitude 1 dB/div
 Phase Deviation 5 deg/div
 Group Delay Variation 100 ns/div

SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	139.6	140.00	140.4	MHz
Insertion Loss		11.5	13.0	dB
1 dB Bandwidth	22.0	22.8		MHz
3 dB Bandwidth	23.9	24.2		MHz
30 dB Bandwidth		28.3	30.0	MHz
35 dB Bandwidth			33.5	MHz
Passband Ripple		0.4	1.0	dB
Phase Deviation from Linear ²		3	14	deg
Group Delay Variation ²		30	100	ns
Absolute Delay		0.85		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.
 2. Evaluated over 80% 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

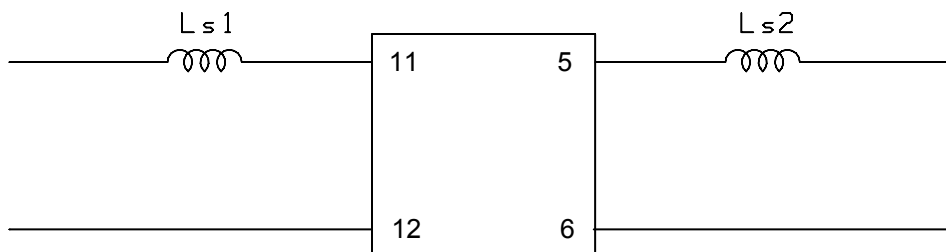


Units: mm

Pin Configuration:

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

MATCHING CIRCUIT



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

Ls1 = 150 nH

Ls2 = 82 nH

Notes

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

ISO 9001
 Registered