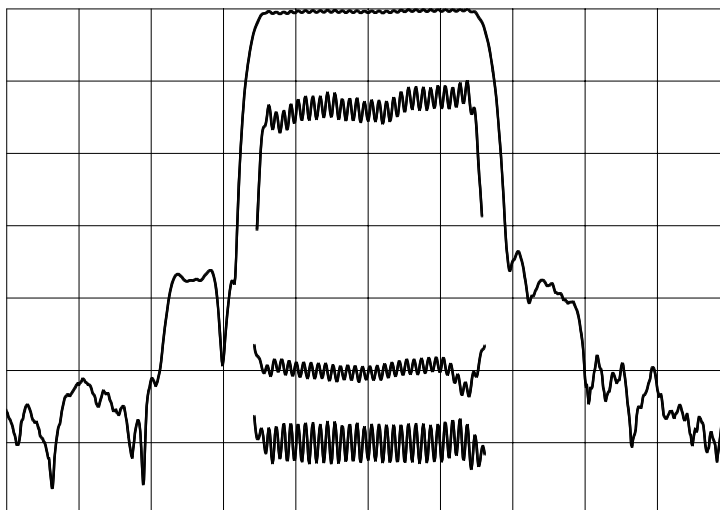


TYPICAL PERFORMANCE



Horizontal: 6 MHz/div Vertical (from top): Magnitude 10,1 dB/div
 Phase Deviation 10 deg/div
 Group Delay Variation 100 ns/div

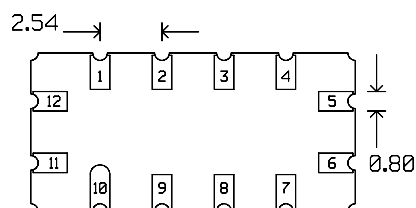
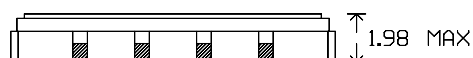
SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	139.6	140	140.4	MHz
Insertion Loss		10	12	dB
1 dB Bandwidth	17.25	18.2		MHz
3 dB Bandwidth	18	19.2		MHz
30 dB Bandwidth		22.2	23	MHz
40 dB Bandwidth		34	48	MHz
Passband Ripple		0.7	1	dB
Phase Deviation from Linear ²		5	10	deg
Group Delay Variation ²		85	120	ns
Absolute Delay		0.82		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

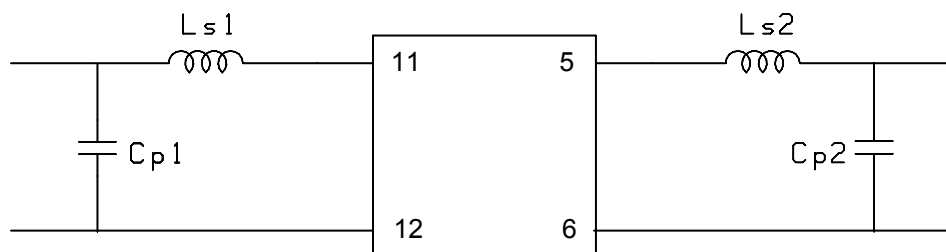


Units: mm

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 = 120 nH
Cp1 = 22 pF

Ls2 = 120 nH
Cp2 = 10 pF

Notes

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

ISO 9001
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