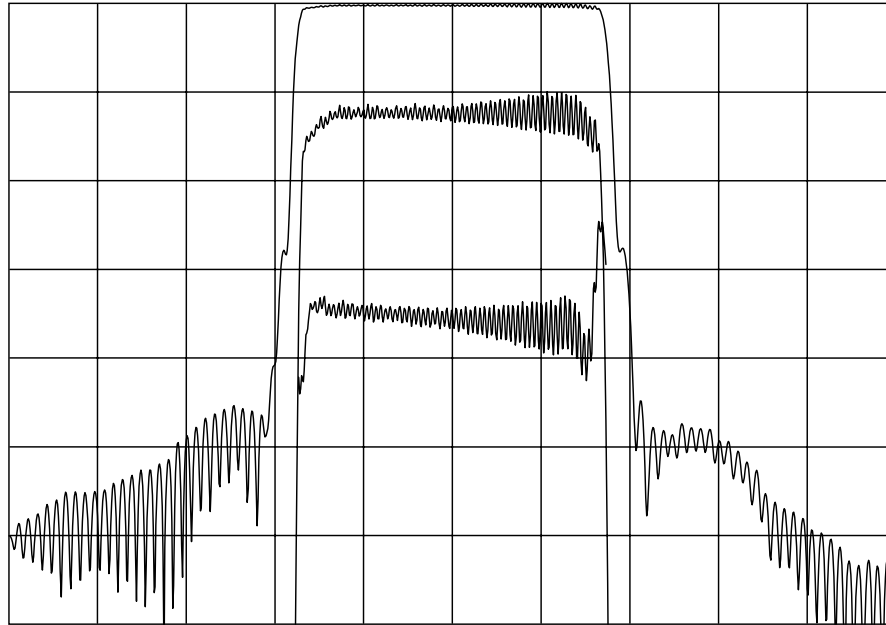




TYPICAL PERFORMANCE



Horizontal: 10 MHz/div Vertical (from top): Magnitude 1 dB/div
Phase Deviation 5 deg/div

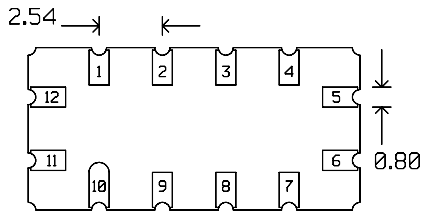
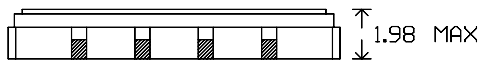
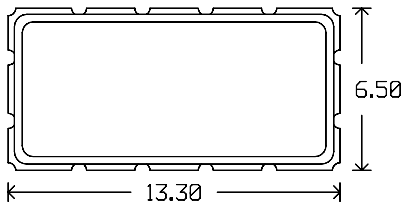
SPECIFICATION

Parameter ²	Min	Typ	Max	Units
Center Frequency (Fc) ¹	139.00	140.00	141.00	MHz
Minimum Insertion Loss		11.8	13	dB
3 dB Bandwidth	32	34		MHz
35 dB Bandwidth		42	44	MHz
Passband Ripple (127.2 to 152.8 MHz)			1.2	dB p-p
Phase Dev'n from Linear (127.2 to 152.8 MHz)			14	deg p-p
Group Delay Variation (127.2 to 152.8 MHz)			120	ns p-p
Absolute Delay		0.83		us
Ultimate Rejection (0.5*Fc to 1.5*Fc)	40			dB
Source and Load Impedance		50		Ω
Substrate		LiNbO ₃		-
Temperature Coefficient of Frequency		-90		ppm/°C
Ambient Temperature		25		° C

Notes: 1. Average of the lower and upper 3 dB band edge frequencies.
 2. All dB levels are referenced to the insertion loss.



PACKAGE OUTLINE

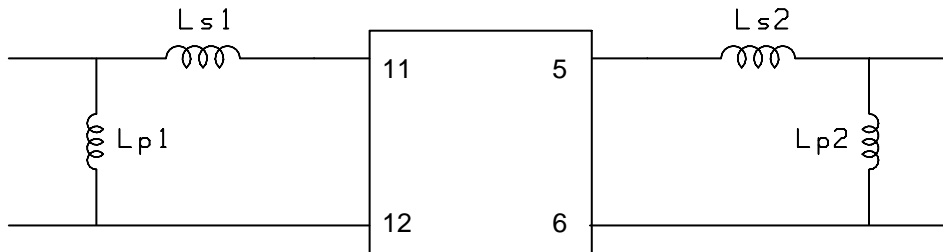


Units: mm

Pin Configuration:

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

MATCHING CIRCUIT



Typical component values: $L_{s1} = \text{TBD nH}$ $L_{s2} = \text{TBD nH}$
 $L_{p1} = \text{TBD nH}$ $L_{p2} = \text{TBD nH}$
 (minimum inductor $Q = 40$)

Notes

- Maximum 2% tolerance matching components shall be used.
- Tuning values shown are for reference only. Optimum values may change depending upon board layout.

ISO 9001
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