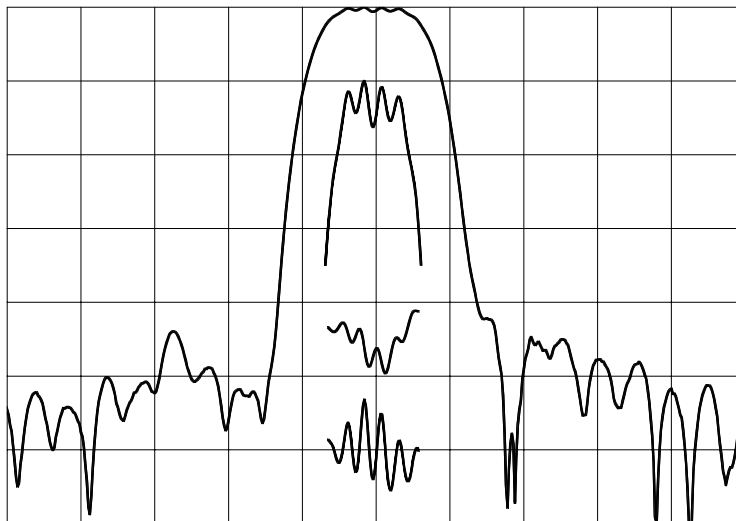




TYPICAL PERFORMANCE



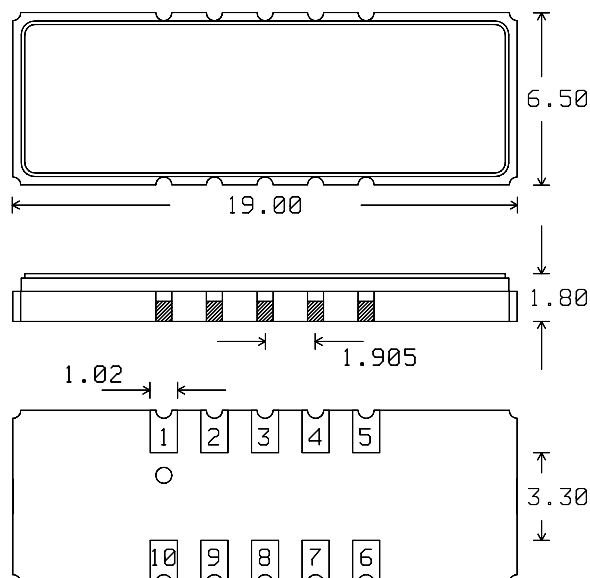
Horizontal: 1 MHz/div Vertical (from top): Magnitude 10, 1 dB/div
Phase Deviation 10 deg/div
Group Delay Variation 250 ns/div

SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	69.92	70.00	70.08	MHz
Insertion Loss		7.5	8.5	dB
1 dB Bandwidth	0.70	1.09		MHz
3 dB Bandwidth	1.00	1.40		MHz
40 dB Bandwidth		2.7	3.0	MHz
Passband Ripple		0.6	1.0	dB
Phase Deviation from Linear ²		5.5	12	deg
Group Delay Variation ²		320	500	ns
Absolute Delay		2.1		μs
Substrate		LiTaO ₃		-
Temperature Coefficient of Frequency (Tc) ³		-23		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 60% of the 3 dB bandwidth.
3. Typical change of filter frequency response with temperature is $\Delta f/f_{ref} = (T - T_{ref}) \cdot Tc$ ppm.

PACKAGE OUTLINE

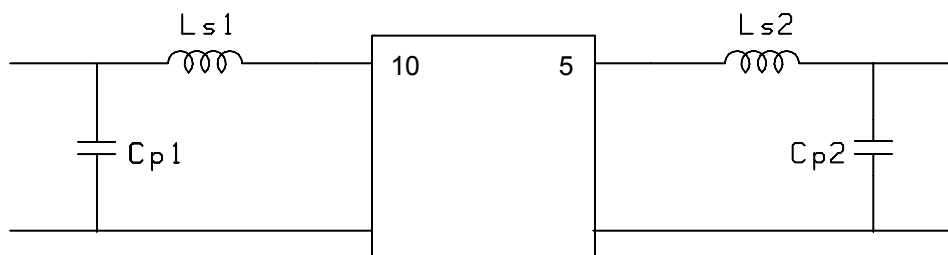


Units: mm

Pin Configuration:

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

MATCHING CIRCUIT



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

$L_{s1} = 150$ nH
 $C_{p1} = 68$ pF

$L_{s2} = 150$ nH
 $C_{p2} = 68$ pF

Notes

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

ISO 9001
Registered