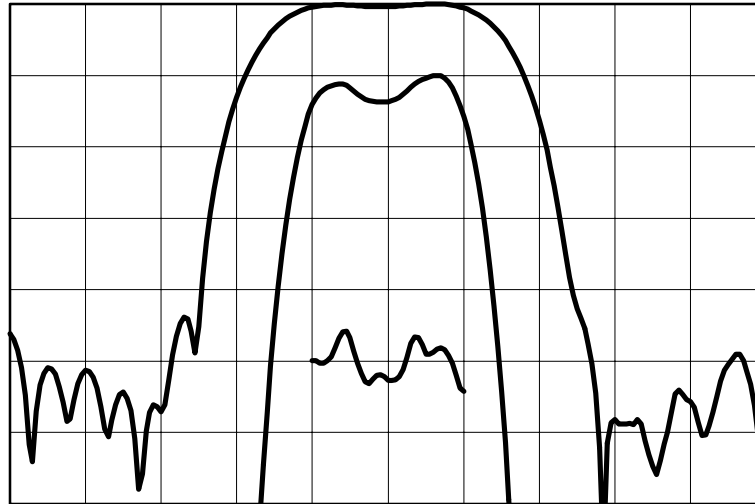




PERFORMANCE



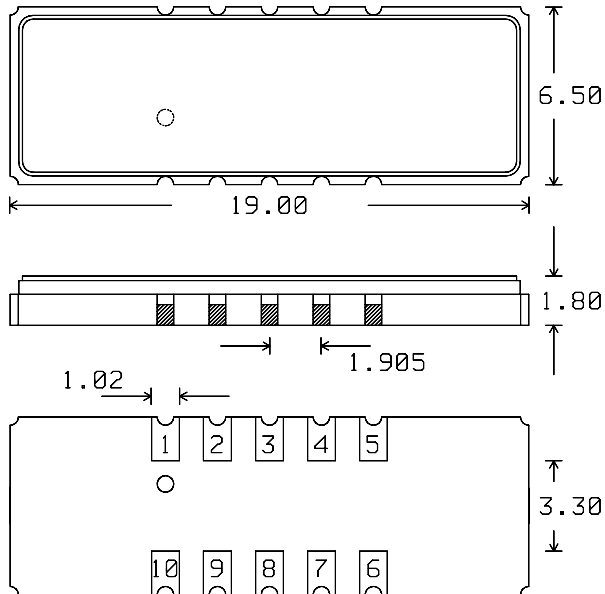
Horizontal: 0.5 MHz/div Vertical (from top): Magnitude 10 dB/div
 Magnitude 1 dB/div
 Group Delay 50 ns/div

SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹		137.5		MHz
Insertion Loss at Fc		11	14	dB
1 dB Bandwidth	1.0	1.2		MHz
3 dB Bandwidth		1.46		MHz
40 dB Bandwidth		2.46	2.6	MHz
Passband Amplitude Ripple ²		0.65	1.0	dB p-p
Passband Phase Linearity ²		1.2	5	deg p-p
Passband Group Delay Ripple ²		40		ns p-p
Ultimate rejection (10 MHz – 127.5 MHz) and (147.5 MHz – 200 MHz)	40	43		dB
Return Loss at Input and Output ^{2 3}		18		dB
Source and Load Impedance		50		Ω
Operating Temperature Range ⁴	-40	23	+85	$^{\circ}$ C

- Notes: 1. Fixed reference. All specified bandwidths are centered at this frequency.
 2. Over the central 1 MHz bandwidth.
 3. When matched using external components in MNC test fixture.
 4. The above specification applies over the full operating temperature range.

PACKAGE OUTLINE

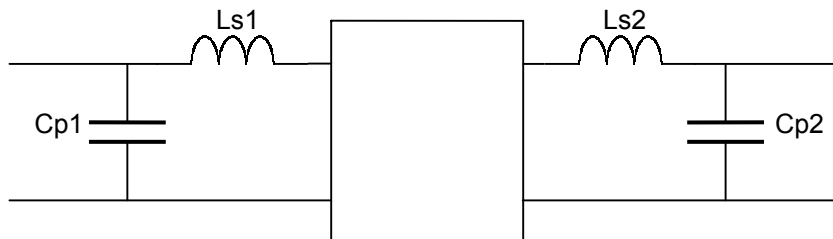


Units: mm

Pin Configuration:

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

MATCHING CIRCUIT



Component values in 50 Ω :
(Minimum Q = 45)

Ls1 = 128 nH
Cp1 = 56 pF

Ls2 = 126 nH
Cp2 = 56 pF

Notes

1. 2% component tolerances are recommended
2. Required values can vary with board layout.