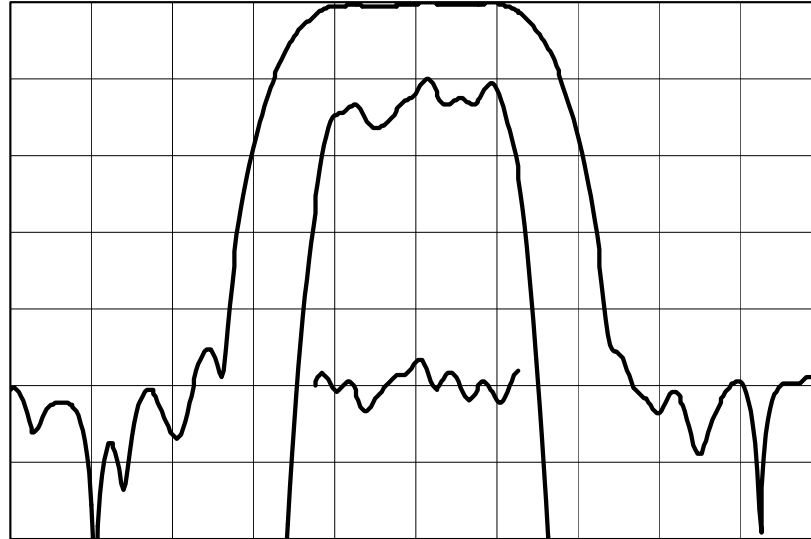


Micro Networks Corp., 324 Clark Street, Worcester, MA 01606, USA tel: 508-852-5400, fax:508-852-8456, www.icst.com

TYPICAL PERFORMANCE



Horizontal: 0.5 MHz/div Vertical (from top): Magnitude 10 dB/div
 Magnitude 1 dB/div
 Phase 4 deg/div

SPECIFICATION

NOTE – All electrical specifications apply over the whole of the operating temperature range.

Parameter	Min	Typ	Max	Units
Center Frequency, F_c		141		MHz
Insertion Loss at F_c		11.7	14	dB
1 dB Bandwidth ¹		1.21		MHz
Attenuation at 141 ± 1.25 MHz ¹	38	44		dB
Stopband Rejection, 70 – 139.5 MHz ¹	42	50		dB
Stopband Rejection, 139.5 – 139.75 MHz ¹	38	45		dB
Stopband Rejection, 142.25 – 142.5 MHz ¹	38	44		dB
Stopband Rejection, 142.5 – 202.25 MHz ¹	42	48		dB
Return Loss at Input and Output, 141 ± 0.625 MHz ²	10	15		dB
Passband Amplitude Ripple, 141 ± 0.625 MHz ³		0.65	1.0	dB p-p
Phase Linearity, 141 ± 0.625 MHz		2.8	4.0	deg p-p
Source and Load Impedance		50		Ω
Operating Temperature Range	-10		+85	$^{\circ}$ C

- Notes: 1. All dB levels in this specification are to be measured relative to the average level across the pass band.
 2. When matched using external components as described below.
 3. Does not include roll-off at band edges.

Micro Networks Corporation

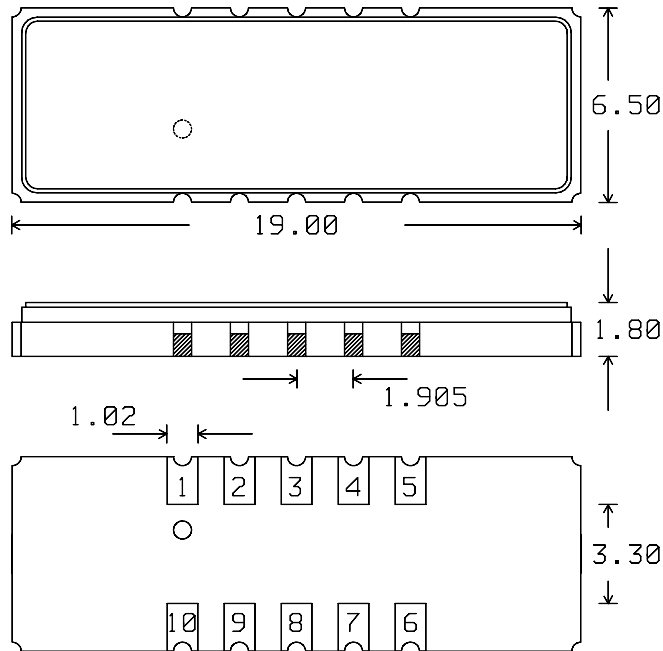
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PACKAGE OUTLINE

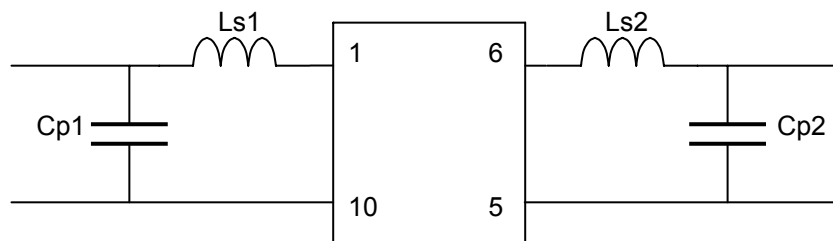


Units: mm

Pin Configuration:

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

MATCHING CIRCUIT



Component values in the Micro Networks test fixture:

Ls1 = 120 nH Ls2 = 110 nH
Cp1 = 51 pF Cp2 = 56 pF

Notes:

1. Component values may change depending on board layout.
2. 2% components or better are recommended in order to meet the return loss specification over the full operating temperature range.

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