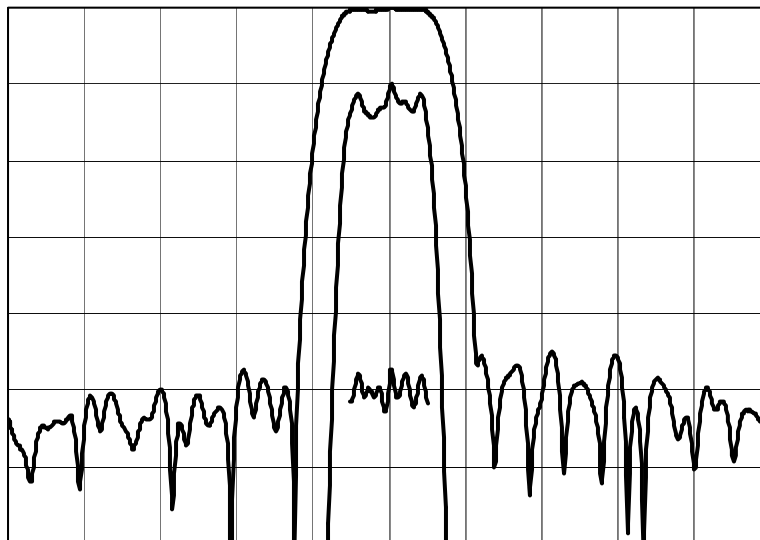


TYPICAL PERFORMANCE



Horizontal: 1 MHz/div

Vertical (from top):

Magnitude	10	dB/div
Magnitude	1	dB/div
Group Delay Deviation	200	ns/div

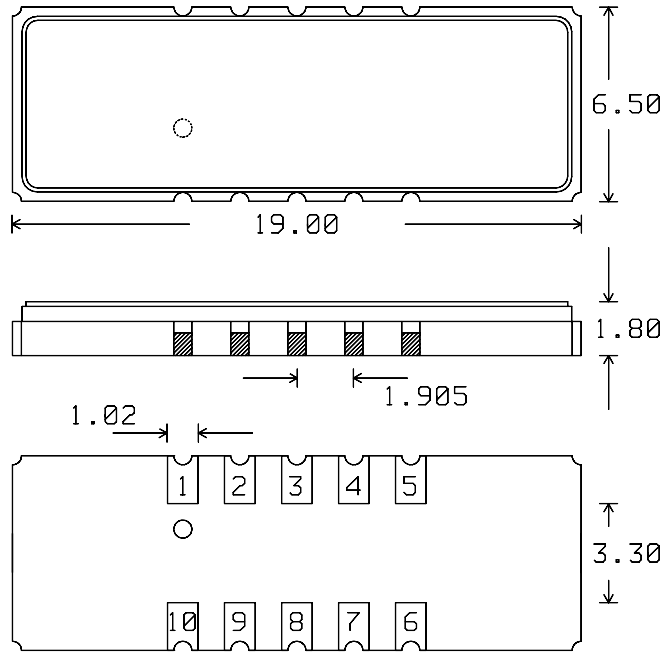
SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency, F_c ¹		141		MHz
Passband Width ²		1.05		MHz
Insertion Loss at F_c		11.8	14	dB
3.75 dB Bandwidth	1.18	1.43		MHz
40 dB Bandwidth		2.29	2.5	MHz
Stopband Rejection, 79.75 – 139.75 MHz & 142.25 MHz - 202.25 MHz	40	45		dB
Amplitude Ripple ³		0.8	1.0	dB p-p
Group Delay Ripple ³		125	300	ns p-p
Return Loss at Input and Output ^{3,5}	8	12		dB
Phase Linearity ⁴		0.6	2.0	deg rms
Absolute Delay	2.34	2.39	2.54	μ s
Source and Load Impedance		50		Ω
Operating Temperature Range	0		+85	$^{\circ}$ C

Notes:

1. Fixed reference. All specified bandwidths are centered at this frequency.
2. Defined bandwidth, centered at 141 MHz. Other parameters are specified over this bandwidth.
3. Over the passband.
4. Over 141 MHz +/- 630 kHz.
5. When matched using external components as described below.

PACKAGE OUTLINE

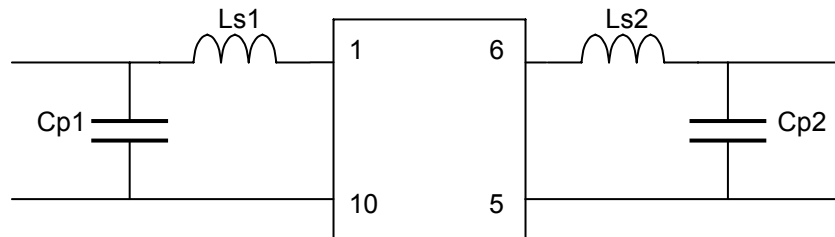


Units: mm

Pin Configuration:

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

MATCHING CIRCUIT



Typical component values:
 (Minimum Q = 45)

Ls1 = 124 nH
 Cp1 = 56 pF

Ls2 = 110 nH
 Cp2 = 52 pF

Notes:

1. Component values shown are those used in the Spectrum Microwave test fixture. Values used in a particular application may differ from this, 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.

ISO 9001
Registered

All specifications are believed to be accurate and reliable. However, Spectrum Microwave reserves the right to make changes without notice.
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