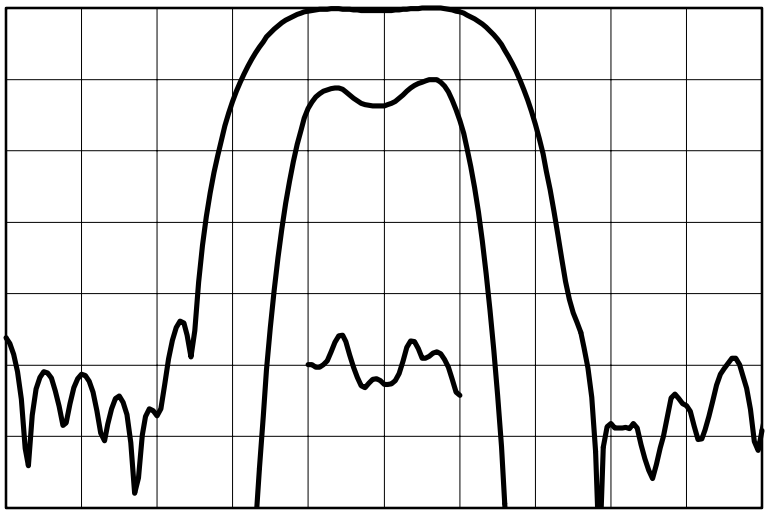
Micro Networks
An Integrated Circuit Systems Company

137.5 MHz Filter

Part Number
SF0137BA02305S

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

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	° 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.

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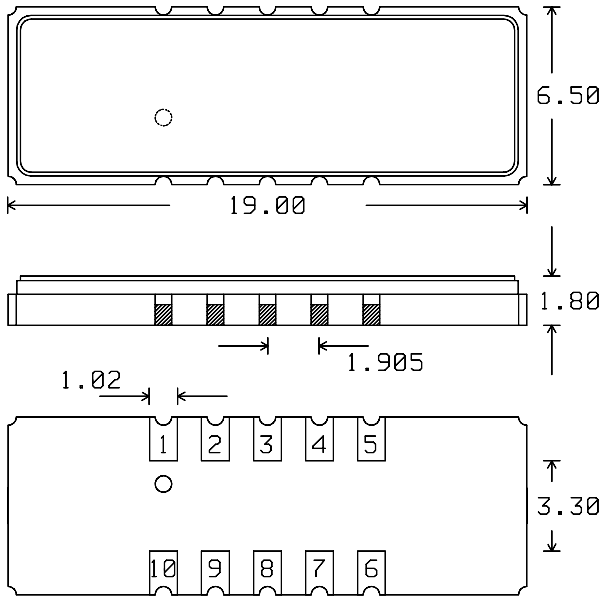
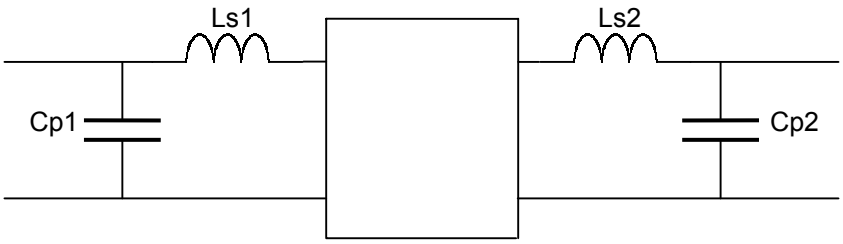
PACKAGE OUTLINE



Units: mm

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

MATCHING CIRCUIT



Component values in 50 Ω: Ls1 = 128 nH Ls2 = 126 nH
(Minimum Q = 45) Cp1 = 56 pF Cp2 = 56 pF

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