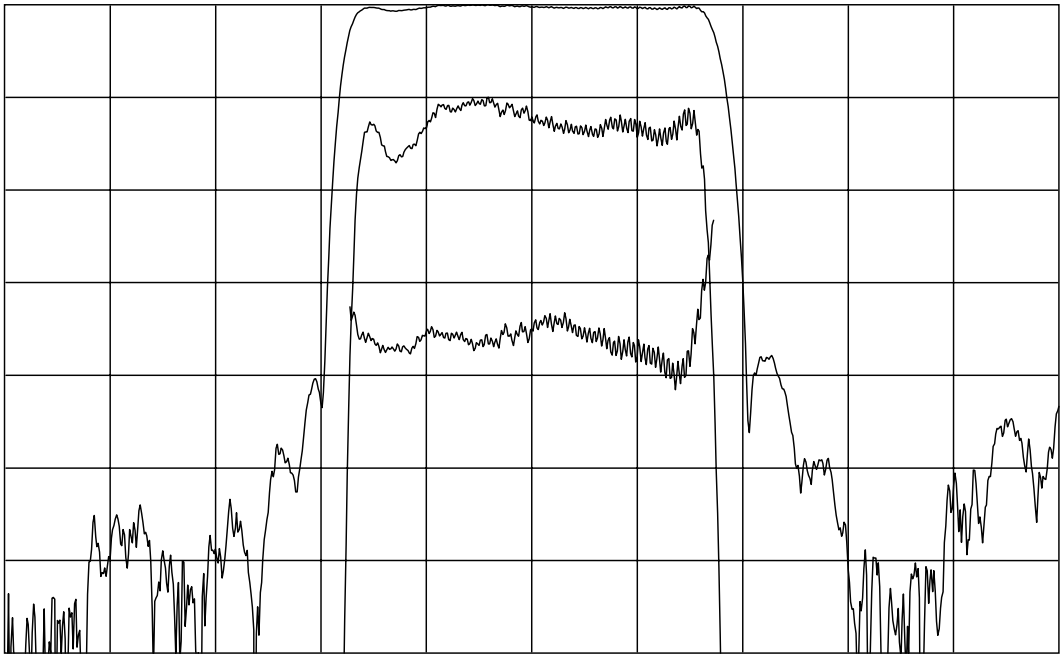
Micro Networks
An Integrated Circuit Systems Company

70.00 MHz Bandpass Filter
34.0 MHz Bandwidth
Part Number **SF0070BA02371S**

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

TYPICAL PERFORMANCE



Horizontal: 10 MHz/div

Vertical (from top): Magnitude 10 dB/div
Magnitude 1 dB/div
Phase 5 deg/div

SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (Fc) [1]	69.80	70.00	70.20	MHz
Insertion Loss		18.5	20	dB
1 dB Bandwidth	31.00	32.70		MHz
3 dB Bandwidth	34.00	34.40		MHz
35 dB Bandwidth		40.4	54.00	MHz
Passband Ripple [2]		0.7	1.0	dB p-p
Phase Ripple [2]		3.8	7	deg p-p
Group Delay Variation [2]		15	50	ns p-p
Absolute Delay		1.08	1.10	us
Rejection (20 MHz to 40 MHz)	45	54		dB
Rejection (100 MHz to 120 MHz)	40	44		dB
Source and Load Impedance		50		Ω
Temperature coefficient of frequency		-90		ppm/°C
Operating Temperature		23		° C

Notes: 1. Mean value of 3 dB points.
2. Measured in central 80% of 3 dB bandwidth.

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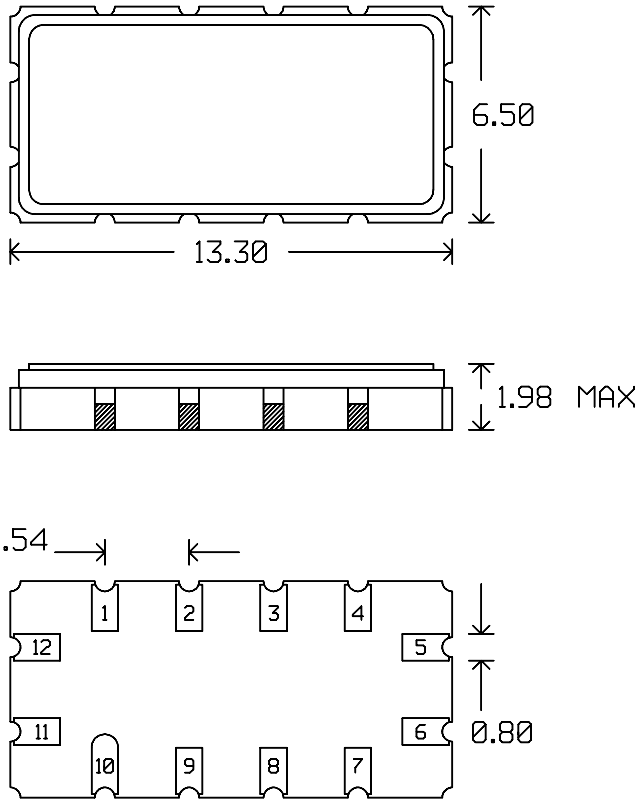
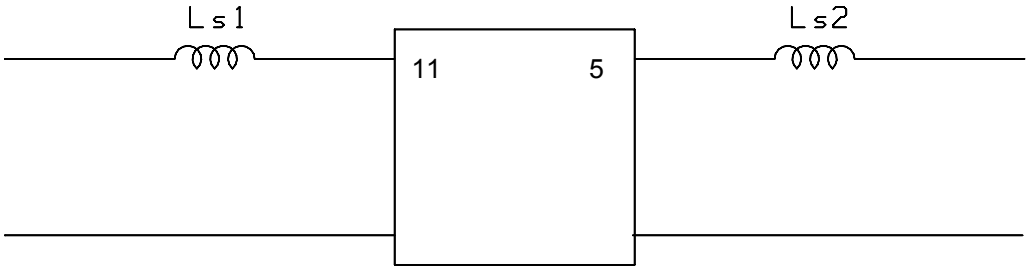
PACKAGE OUTLINE



Units: mm

Pad Configuration:
Input: 11
Output: 5
Ground: All other pads

MATCHING CIRCUIT



Typical component values: Ls1 = 270 nH Ls2 = 120 nH

(minimum inductor Q = 40)

Notes
- Recommend use of 2% matching components.
- Optimum values depend on board layout. Values intended as guide only.

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