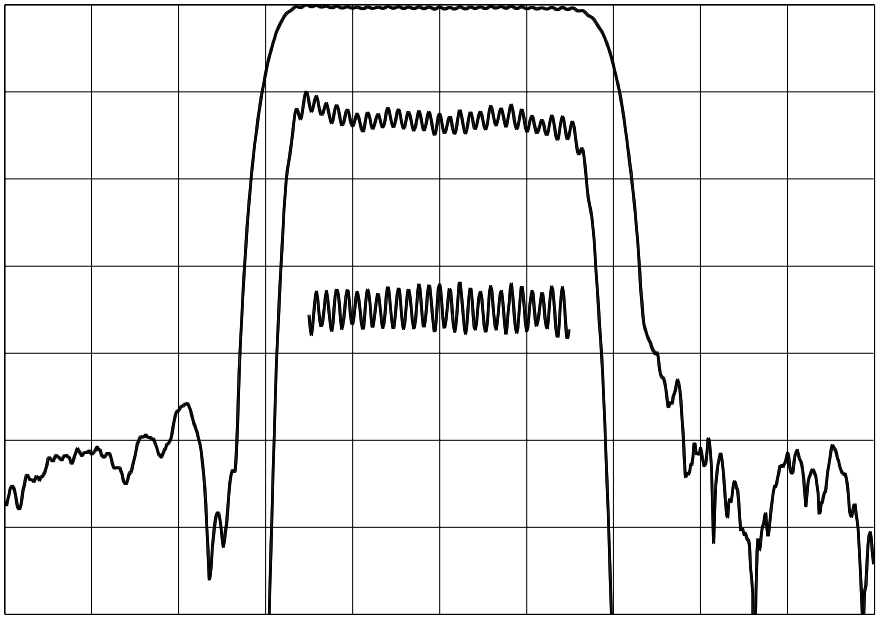
Micro Networks
An Integrated Circuit Systems Company

70.0 MHz Low-Loss Filter
14.0 MHz Bandwidth
Part Number SF0070BA03060S

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

TYPICAL PERFORMANCE



Horizontal: 4.0 MHz/div Vertical (from top): Magnitude 10 dB/div
Magnitude 1 dB/div
Group Delay 100 ns/div

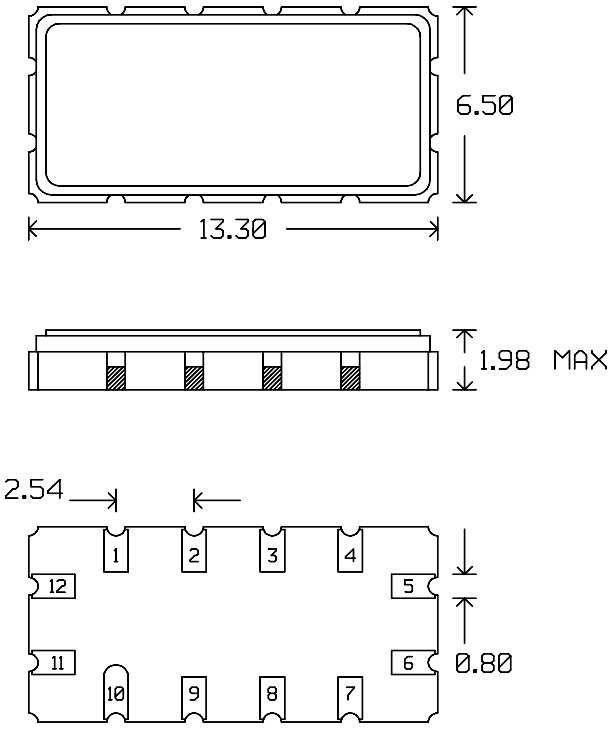
SPECIFICATION

Parameter	Min.	Typ.	Max.	Units.
Center Frequency (Fc) [1]	69.8	70.0	70.2	MHz
Insertion Loss		13.0	13.5	dB
1 dB Bandwidth [2]	13.4	13.9		MHz
3 dB Bandwidth [2]	14.0	15.0		MHz
40 dB Bandwidth [2]		18.8	20.25	MHz
Passband Amplitude Ripple [3]		0.6	1.0	dB p-p
Passband Phase Ripple [3]		5.0	11.5	deg p-p
Group Delay Ripple [3]		70	90	ns p-p
Absolute Delay		1.05		us
Ultimate Rejection	40	45		dB
Substrate Material	YZ Lithium Niobate			
Temperature Coefficient		-90		ppm/º C
Ambient Temperature		25		º C

Notes:
1: Mean Value of 3 dB points.
2: Relative to Insertion Loss
3. Measured over 80% of min. 3 dB Bandwidth

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

PACKAGE OUTLINE

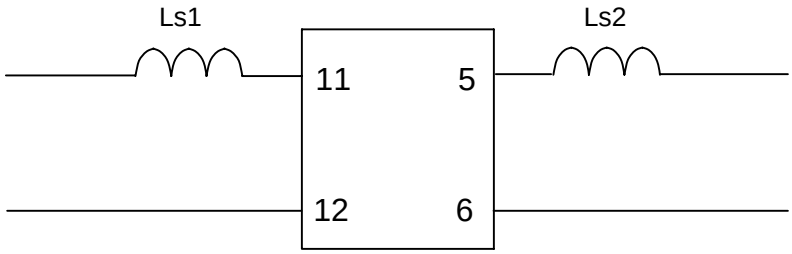


Units: mm

Pin Configuration:

Input:	11
Input Return:	12
Output:	5
Output Return:	6
Ground:	All other pins

MATCHING CIRCUIT



Component values:

Ls1 = 120 nH Ls2 = 100 nH (Minimum Q = 45)

Notes

1. Recommend use of 5% tolerance components.
2. Optimum values depend on board layout. Values intended as guide only.

ISO 9001 Registered