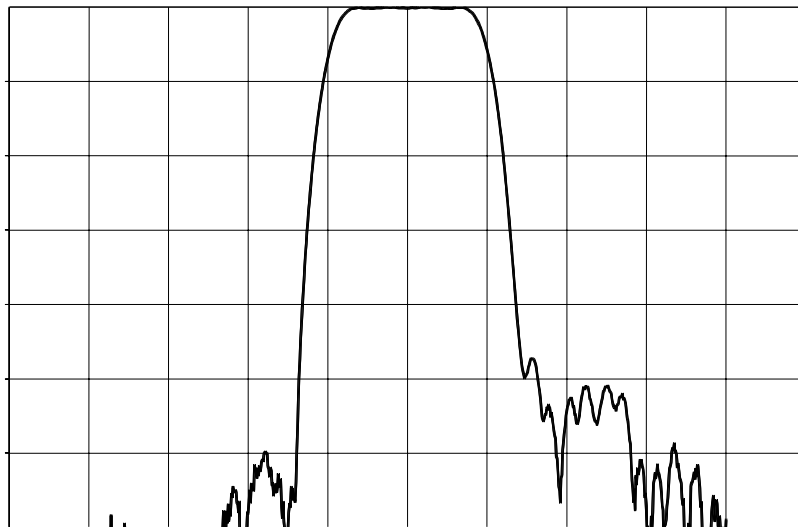




TYPICAL PERFORMANCE



Horizontal: 2.0 MHz/div

Vertical (from top): Magnitude

10 dB/div

SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (F_c) ¹	69.01	70	70.09	MHz
1 dB Bandwidth	3.0			MHz
3 dB Bandwidth	3.5			
40 dB Bandwidth			5.6	MHz
Ultimate Rejection ($0.5 * F_c$ to 62 MHz)	50			dB
Ultimate Rejection (78 to $1.5 * F_c$ MHz)	50			dB
Insertion Loss			27	dB
Source and Load Impedance		50		Ω
Passband Amplitude Ripple ²			0.8	dB p-p
Passband Phase Ripple ²			8.0	deg p-p
Passband Group Delay Ripple ^{2, 3}			100	ns p-p
Measurement Temperature		23		° C
Operating Temperature Range ⁴	-30		+70	° C

Notes:

1. Floating reference. All specified bandwidths track with this frequency.
2. Defined over the interval bound by the first local maxima inward from the 3 dB frequencies.
3. A 1% smoothing aperture and an averaging factor of 16 may be used for this measurement.
4. Temperature coefficient of Frequency = $-0.03\text{ppm}/(\Delta^\circ\text{C})^2$ nominal



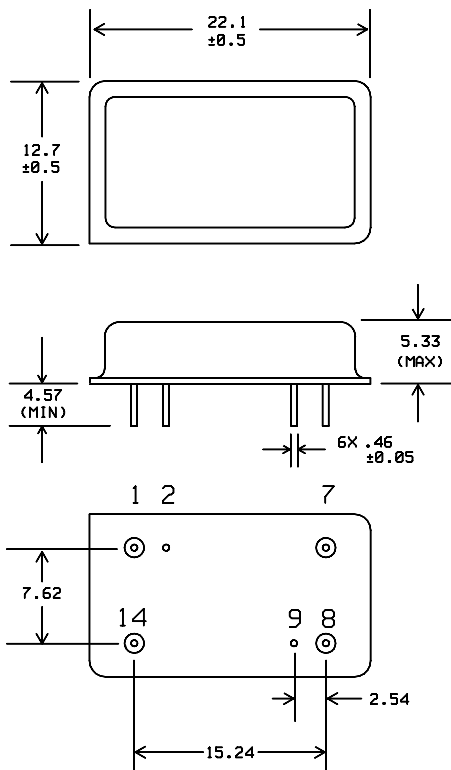
Micro Networks
An Integrated Circuit Systems Company

**70 MHz Filter
for Broadband Applications
Part Number SF0070BA02178T**

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



PACKAGE OUTLINE

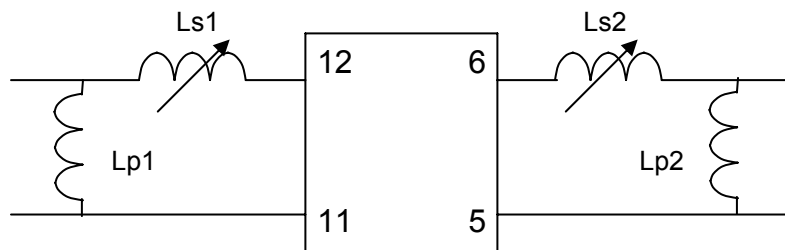


Units: mm

Pin Configuration:

Input: 1
Input Return: 14
Output: 8
Output Return: 7
Ground: 2,9

MATCHING CIRCUIT



Typical component values:
(minimum inductor Q = 45)

Ls1 = 425 nH
Lp1 = 68 nH

Ls2 = 455 nH
Lp2 = 68 nH

- Notes
- Requires variable matching components.
 - Coilcraft 1008HT (fixed) and LM2 (7-mm variable) series recommended
 - Component values may change depending on board layout.

ISO 9001
Registered

Micro Networks

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