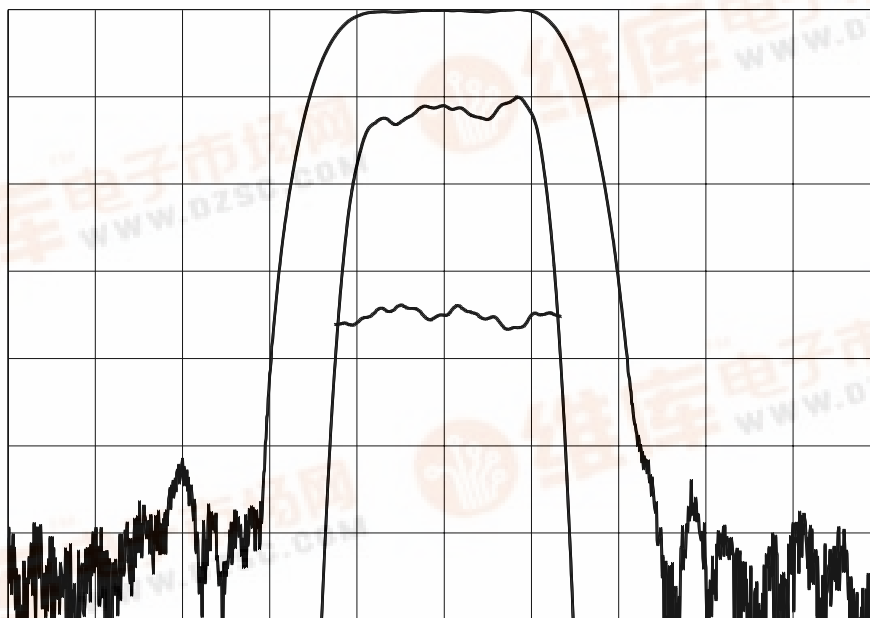




70 MHz Filter
2.5 MHz Bandwidth
Part Number SF0070CF51547T

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

TYPICAL PERFORMANCE



Horizontal: 1.0 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	69.92	70.0	70.08	MHz
Insertion Loss at Fc		23	25	dB
1 dB Bandwidth	2.1	2.2		MHz
3 dB Bandwidth	2.5	2.6		MHz
40 dB Bandwidth		4.1	4.4	MHz
Passband Ripple		0.3	0.7	dB
Phase Ripple		2	4	deg p-p
Group Delay Ripple		45	100	ns p-p
Absolute Delay		2.3		us
Ultimate Rejection	50	55		dB
Substrate Material	Quartz			
Ambient Temperature		25		deg C

Notes:

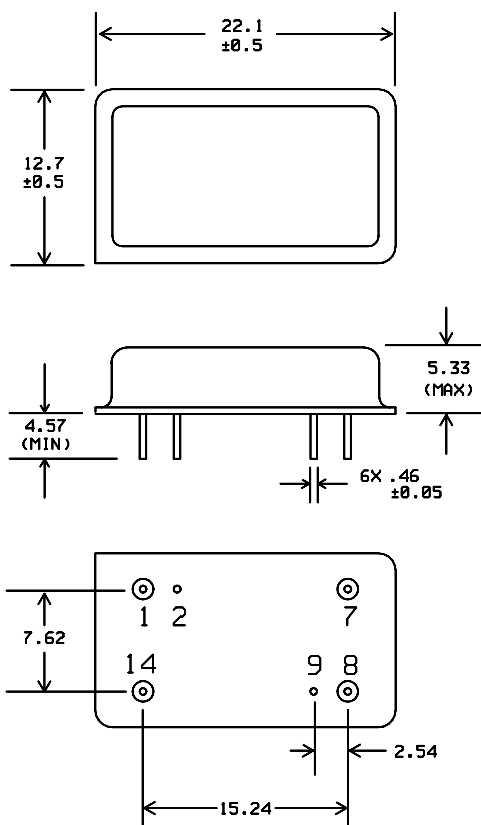
1: Mean Value of 3 dB points



Micro Networks

Worldwide Headquarters: 324 Clark Street Worcester, MA 01606. tel: 508-852-5400 fax: 508-852-8456
European Sales Headquarters: Hertosingel 20 6214 AD Maastricht, Netherlands. tel: +31-43-32-70915 fax: +31-43-32-70715
www.micronetworks.com

PACKAGE OUTLINE

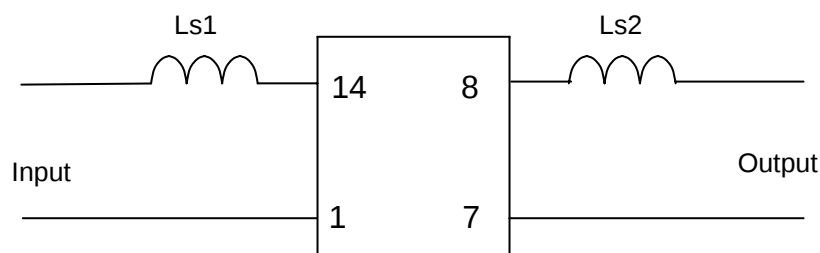


Units: mm

Pin Configuration:

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

MATCHING CIRCUIT



Predicted Component values into 50 Ω matching (for guidance only) :

$Ls1 = 510$ nH
 $Ls2 = 560$ nH
(Minimum Q = 45)

Notes

1. Recommend use of 2% tolerance components.
2. Component values may vary depending board layout.

ISO 9001
Registered