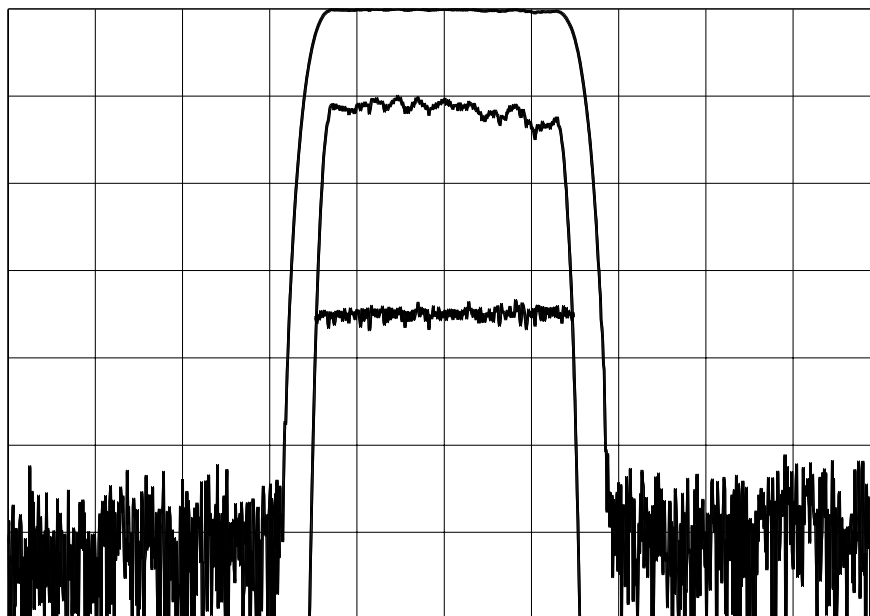




TYPICAL PERFORMANCE



Horizontal: 15 MHz/div

Vertical (from top):

Magnitude

10 dB/div

Magnitude

1 dB/div

Group Delay

50 ns/div

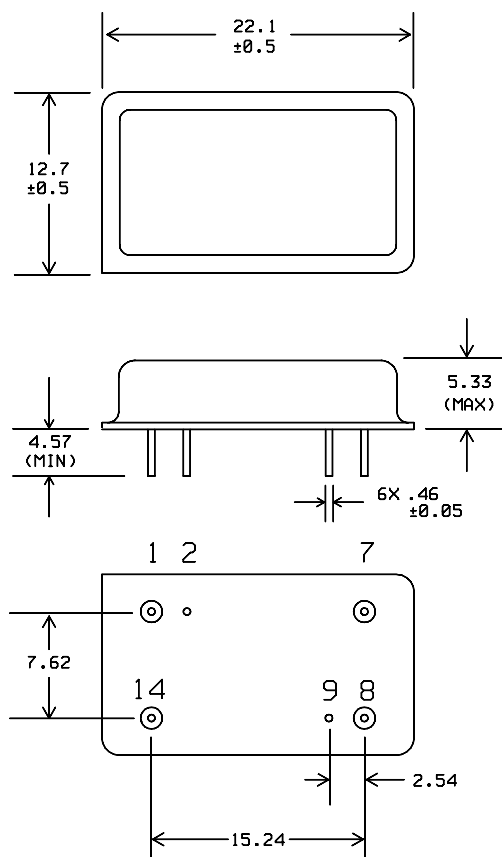
SPECIFICATION

Parameter	Min.	Typ.	Max.	Units.
Center Frequency (Fc) ¹	139.75	140.0	140.25	MHz
Insertion Loss at Fc		23.5	25	dB
1 dB Bandwidth	41.2	41.8		MHz
3 dB Bandwidth	44	44.3		MHz
40 dB Bandwidth		54.2	55	MHz
Passband Ripple		0.5	0.7	dB p-p
Phase Ripple		4.0	6	deg p-p
Group Delay Ripple		20.0	30	ns p-p
Absolute Delay		1.0		us
Ultimate Rejection	50	55		dB
Temperature Coefficient of Frequency		-80		ppm/° C
Substrate Material	128 Lithium Niobate			
Source and Load Impedance		50		Ω
Ambient Temperature		25		° C

Notes:

1: Mean Value of 3 dB band edges.

PACKAGE OUTLINE

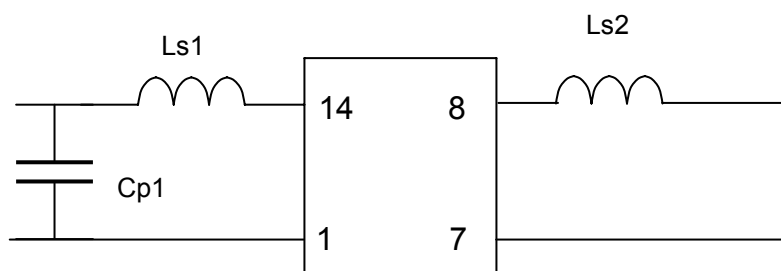


Units: mm

Pin Configuration:

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

MATCHING CIRCUIT



Component values:

Ls1 = 82 nH Ls2 = 83 nH (Minimum Q = 45)

Cp1 = 20 pF

Notes

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

ISO 9001
Registered

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: +31-43-32-70912 fax: +31-43-32-70715
www.micronetworks.com