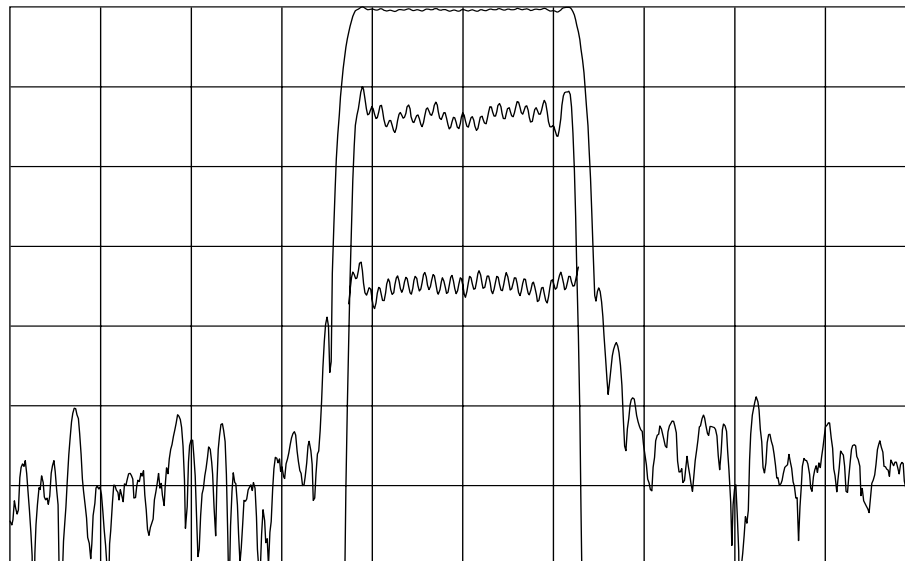




TYPICAL PERFORMANCE



Horizontal: 2 MHz/div

Vertical (from top):

Magnitude

10 dB/div

Magnitude

1 dB/div

Phase Linearity

5 deg/div

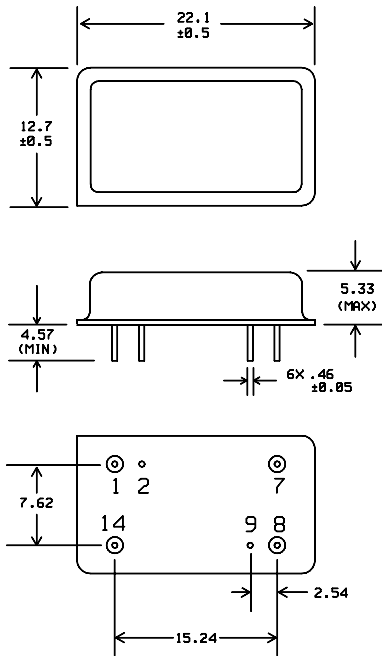
SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (Fc, 3dB points)		140.00		MHz
Insertion Loss (at Fc)			25	dB
1 dB Bandwidth ²	4.70			MHz
3 dB Bandwidth ²	5.00			MHz
40 dB Bandwidth ²			7.00	MHz
Device Delay			2.60	us
Group Delay Deviation (in 1dB BW) ³			150	ns p-p
Phase Linearity (in 1dB BW)			5	deg p-p
Passband Ripple (in 1dB BW)			0.7	dB p-p
Rejection (70 to 127.5 MHz) ²	50			dB
Rejection (162.5 to 210 MHz) ²	50			dB
Input Return Loss (80% 1 dB Bandwidth)		14		dB
Output Return Loss (80% 1 dB Bandwidth)		14		dB
System Source and Load Impedance		50		Ω
Temperature Coefficient		-35		ppm/ $^{\circ}$ C
Input Power			+10	dBm
Operating Temperature Range		23		$^{\circ}$ C

- Notes:
1. All specifications apply at 23C.
 2. Parameter is measured relative to the insertion loss at 140 MHz.
 3. This parameter is to be measured after applying a smoothing aperture of 250 kHz.



PACKAGE OUTLINE

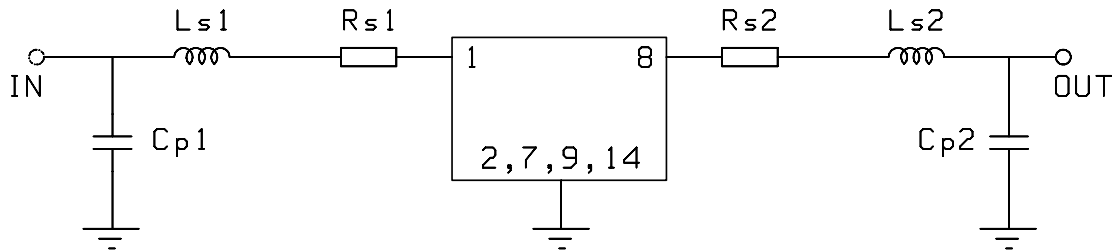


Units: mm

Pin Configuration:

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

MATCHING CIRCUIT



Typical component values: $L_{s1} = 43 \text{ nH}$ $L_{s2} = 47 \text{ nH}$
 $C_{p1} = 33 \text{ pF}$ $C_{p2} = 33 \text{ pF}$
 $R_{s1} = 10 \text{ ohm}$ $R_{s2} = 7.5 \text{ ohm}$

(Minimum inductor Q = 40)

Notes

- Recommend use of 2% matching components..
- Tuning values shown are for reference only. Optimum values may change depending upon board layout.

