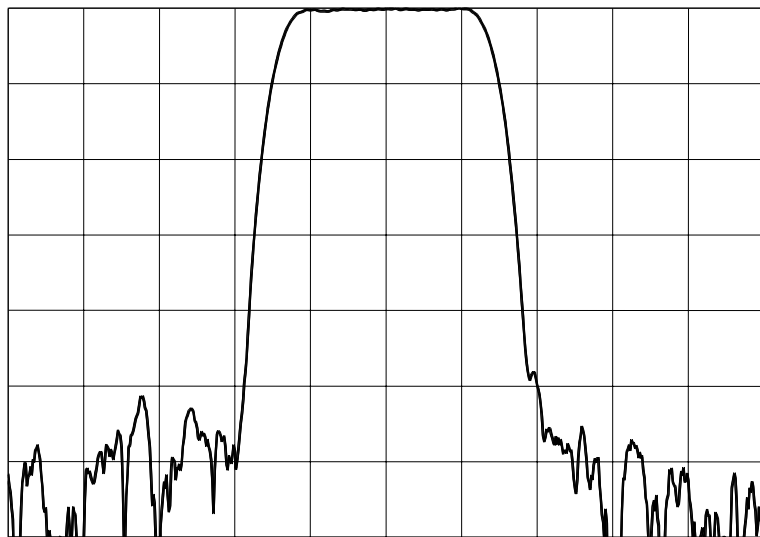




TYPICAL PERFORMANCE



Horizontal: 2.0 MHz/div

Vertical (from top): Magnitude

10 dB/div

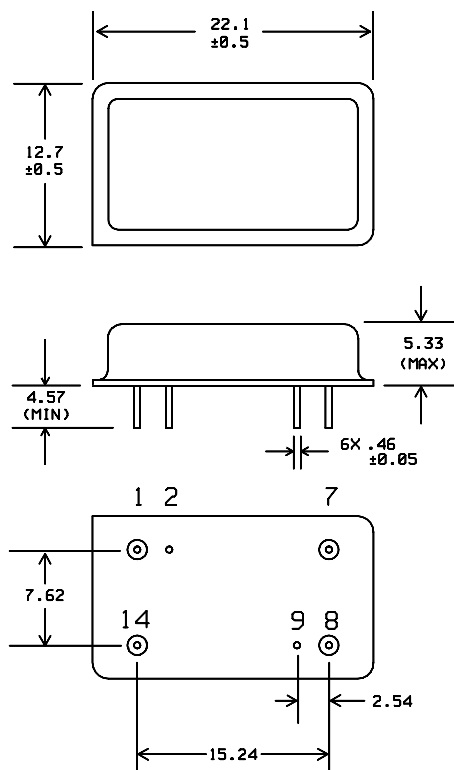
SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (F_c) ¹	69.01	70	70.09	MHz
1 dB Bandwidth	4.5			MHz
3 dB Bandwidth	5.0			
40 dB Bandwidth			7.5	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			26	dB
Source and Load Impedance		50		Ω
Passband Amplitude Ripple ²			0.8	dB p-p
Passband Phase Ripple ²			6.0	deg p-p
Passband Group Delay Ripple ^{2, 3}			100	ns p-p
Measurement Temperature		23		$^{\circ}\text{C}$
Operating Temperature Range ⁴	-30		+70	$^{\circ}\text{C}$

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 = -23ppm/ $^{\circ}\text{C}$ nominal

PACKAGE OUTLINE

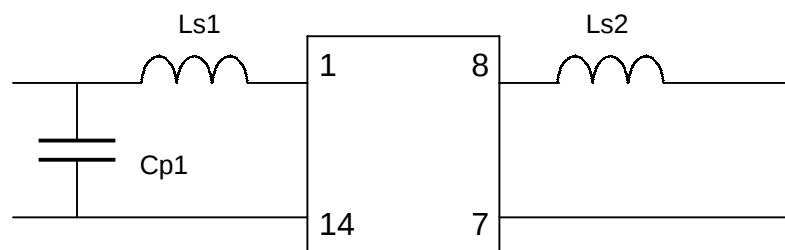


Units: mm

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 = 150 nH
Cp1 = 62 pF

Ls2 = 100 nH

Notes

- Coilcraft 1008HT series is recommended 5% component tolerance
- Component values may change depending on board layout.

**ISO 9001
Registered**

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