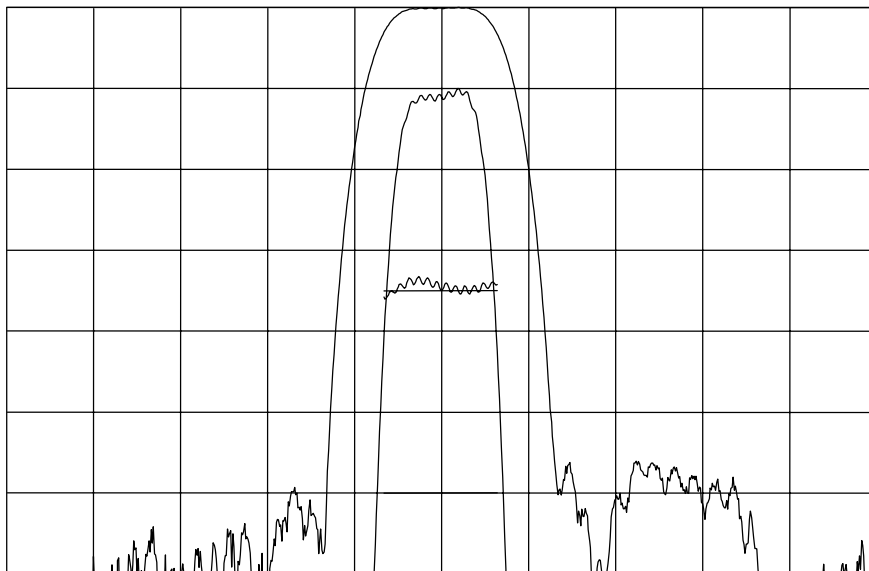




TYPICAL PERFORMANCE



Horizontal: 2.0 MHz/div

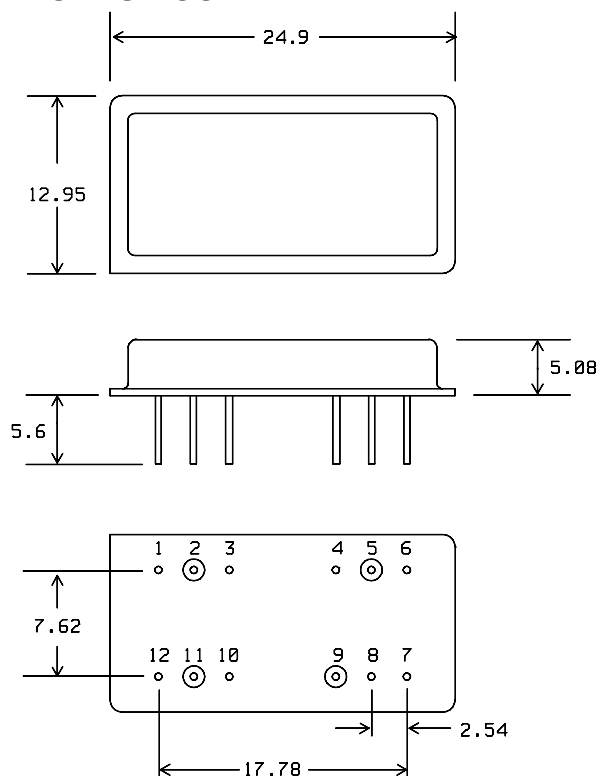
Vertical (from top): Magnitude 10 dB/div
Magnitude 1 dB/div
Phase 5 deg/div

SPECIFICATION

Parameter	Min	Typ	Max	Units
Center Frequency (Fo)		114.99		MHz
Lower 0.5 dB Frequency ¹			114.29	MHz
Upper 0.5 dB Frequency ¹	115.69			MHz
Attenuation at 110.04 MHz Single Tone ¹	65	>65		MHz
Rejection (0.5 Fo to 112 MHz) ¹	55	>55		dB
Rejection (118 MHz to 119 MHz) ¹	55	>55		dB
Rejection (119 MHz to 122 MHz) ¹	50	>50		dB
Rejection (122 MHz to 1.5 Fo MHz) ¹	55	>55		dB
Input Power			+10	dBm
Insertion Loss ²		23.5	25.0	dB
Source and Load Impedance		50		Ω
Input Return Loss ²	14	>14		dB
Output Return Loss ²	14	>14		dB
Passband Ripple ^{2,3}		0.4	0.5	dB p-p
Deviation from Linear Phase ⁴		3.5	5.0	deg p-p
Integrated Phase Error ⁴			0.0015	Rad ²
Operating Temperature Range	-10	23	70	°C

- Notes: 1. Levels are relative to the insertion loss at Fo.
2. Into 50 Ω Matching Network shown on next page.
3. Ripple is not part of loss from center to band edges in center 1.23 MHz.
4. Over center 1.23 MHz including 50 Ω Matching Network shown on next page.

PACKAGE OUTLINE

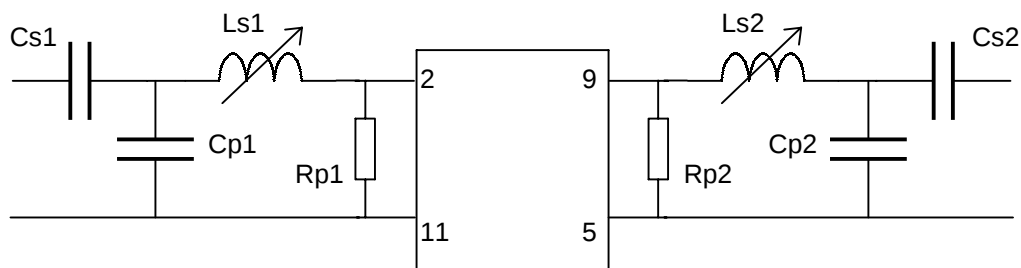


Units: mm

Pin Configuration:

Input:	2
Input Return:	11
Output:	9
Output Return:	5
Ground:	1,3,4,6,7,8,10,12

MATCHING CIRCUIT



Typical component values:

(minimum inductor Q = 45)

Rp1 = 2 kΩ
Ls1 = 172 nH – 216 nH
Cp1 = 33 pF
Cs1 = 220 pF

Rp2 = 1 kΩ
Ls2 = 142 nH – 184 nH
Cp2 = 33 pF
Cs2 = 110 pF

Notes - Requires 2% matching components.
Component values may change depending on board layout

ISO 9001
Registered

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