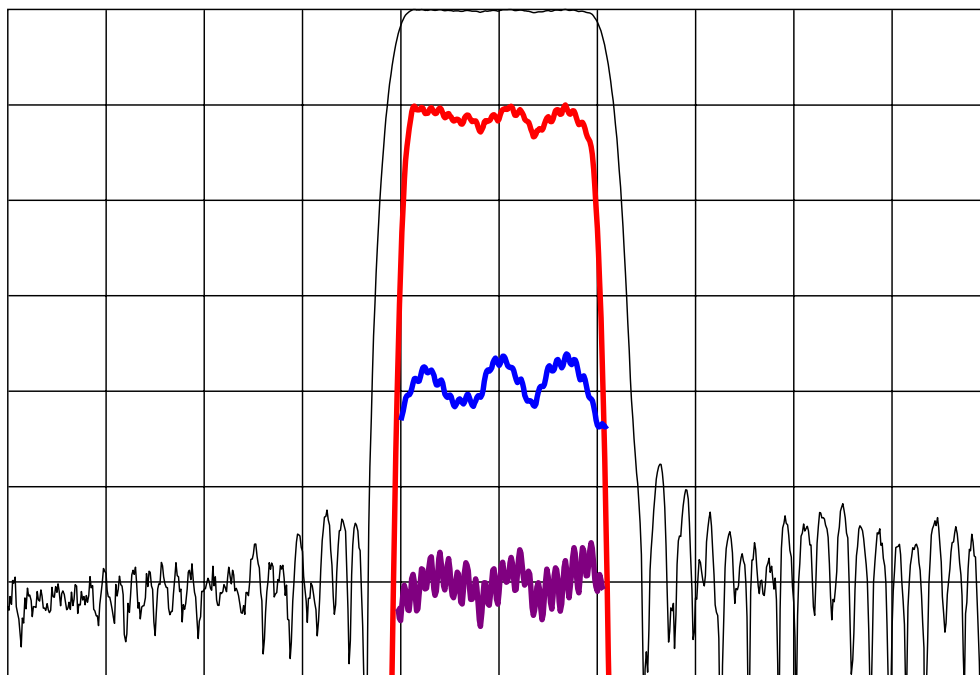


DESCRIPTION

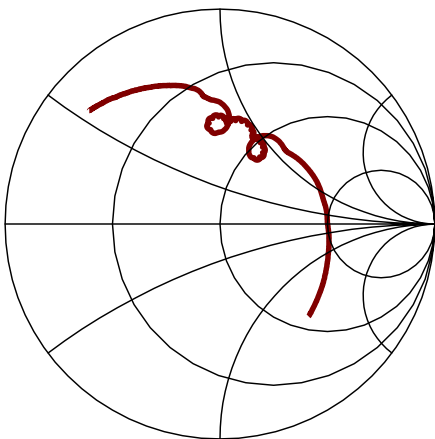
- 160 MHz SAW bandpass filter with 4 MHz bandwidth.
- 22.1 x 12.7 mm DIP package.
- RoHS compliant.

TYPICAL PERFORMANCE

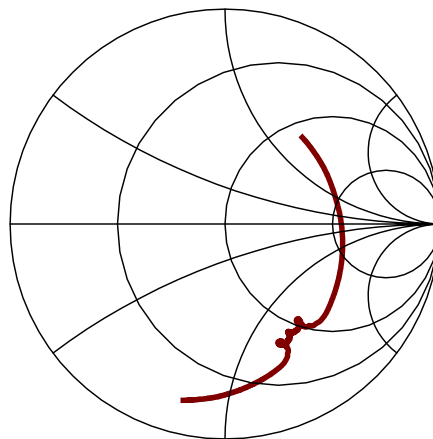


Horizontal: Frequency : 2 MHz/div
 Vertical from Top: Relative Magnitude : 10 dB/div
 Relative magnitude : 1 dB/div
 Phase Linearity : 5 deg/div
 Group Delay : 100 ns/div

S11 (150 to 170 MHz)



S22 (150 to 170 MHz)



SPECIFICATION

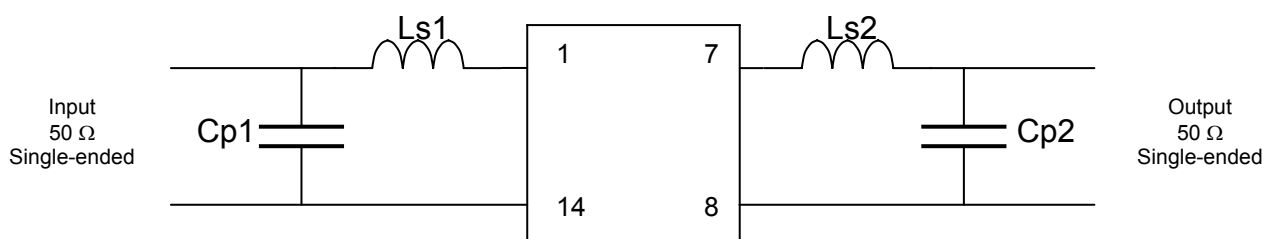
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	159.90	160.00	160.10	MHz
3 dB Bandwidth	4.00	4.17	-	MHz
40 dB Bandwidth	-	5.28	5.80	MHz
Device Delay	-	2.76	-	μsec
Insertion Loss		23.3	25.0	dB
Phase Linearity ²	-	2.7	5	deg p-p
Passband Variation ²	-	0.45	0.7	dB p-p
Rejection (10 to 156 MHz)	50	54	-	dB
Rejection (156 to Fo-2.9 MHz)	45	48	-	dB
Rejection (Fo+2.9 to 164 MHz)	45	48	-	dB
Rejection (164 to 280 MHz)	50	54	-	dB
Source and Load Impedance	-	50	-	ohms
Ambient Temperature	-	25	-	° C

- Notes:
1. All specified bandwidths are centered at or referenced to this frequency.
 2. Computed as the delta of the highest and lowest points inside the 3 dB Bandwidth.

MAXIMUM RATINGS

Parameter	Min	Typ	Max	Units
Storage Temperature Range	-40	25	85	°C
Input Power Level	-	10	13	dBm

MATCHING CIRCUIT



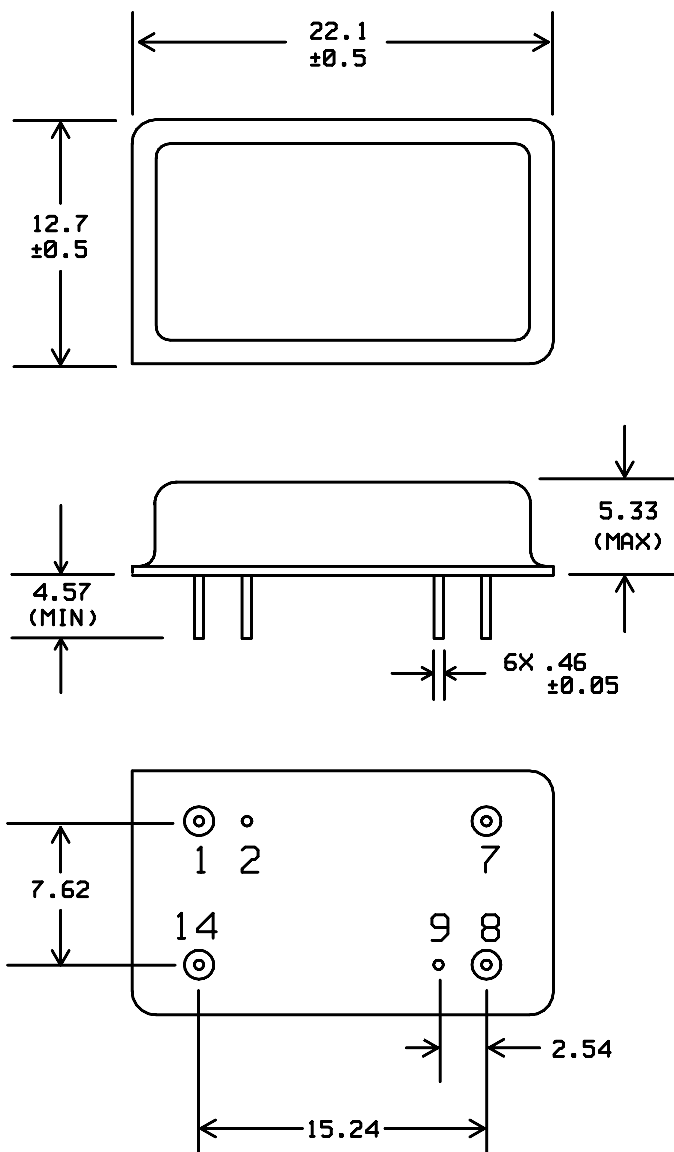
Typical component values:

$$\begin{array}{ll} Ls1 & = 100 \text{ nH} \\ Cp1 & = 33 \text{ pF} \end{array} \qquad \begin{array}{ll} Ls2 & = 100 \text{ nH} \\ Cp2 & = 24 \text{ pF} \end{array}$$

Notes:

1. Recommend use of 2% tolerance matching components. Inductor Q=45.
2. Component values are for reference only and may change depending on board layout.

PACKAGE OUTLINE



Units: mm

Tolerances are ± 0.15 mm except where indicated and for the overall length and width, which are nominal values.

Pin Configuration:

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

ISO 9001
Registered

All specifications are believed to be accurate and reliable. However, Spectrum Microwave reserves the right to make changes without notice.
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