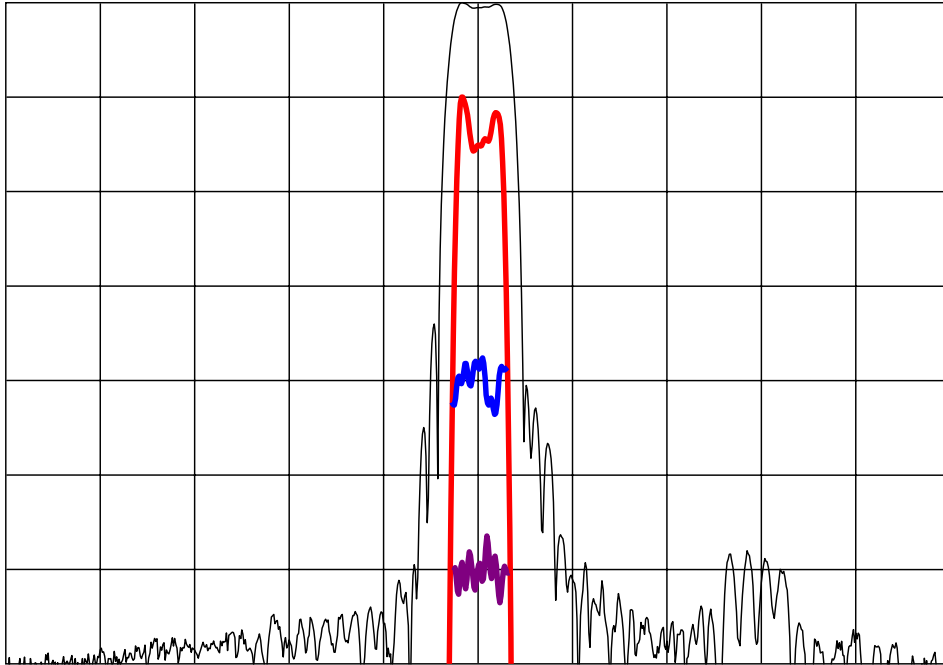


DESCRIPTION

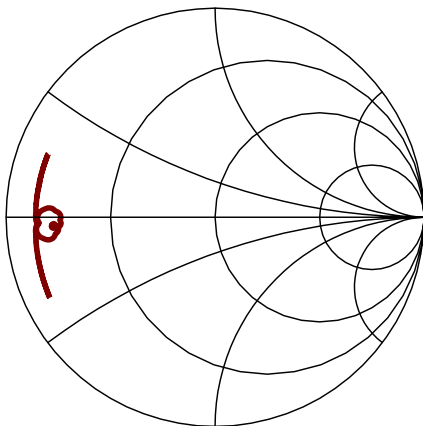
- 115 MHz SAW bandpass filter with 1 MHz bandwidth.
- 22.1 x 12.7 mm DIP package.
- RoHS compliant.

TYPICAL PERFORMANCE

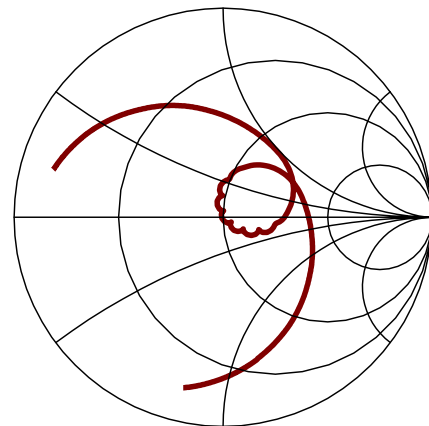


Horizontal: Frequency : 2 MHz/div
 Vertical from Top: Relative Magnitude : 10 dB/div
 Relative magnitude : 1 dB/div
 Phase Linearity : 2 deg/div
 Group Delay Deviation : 100 ns/div

S11 (105 to 125 MHz)



S22 (105 to 125 MHz)



SPECIFICATION

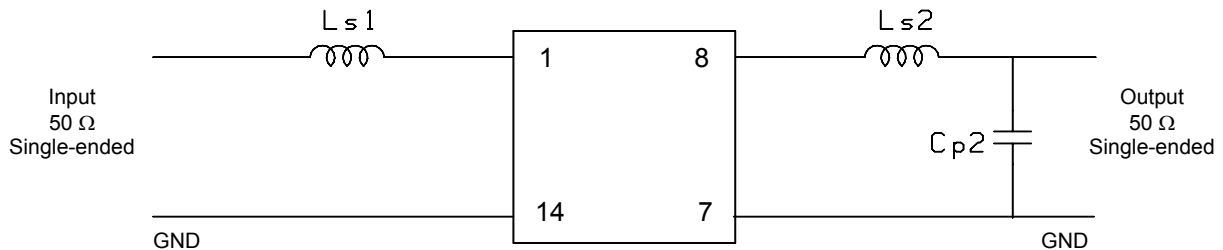
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	114.95	115.00	115.05	MHz
1 dB Bandwidth	-	1.02	-	MHz
3 dB Bandwidth	1.15	1.17	-	MHz
12 dB Bandwidth	-	1.49	1.50	MHz
45 dB Bandwidth	-	1.81	3.00	MHz
Rejection (10 MHz to F _C -2.5 MHz) ²	50	60	-	dB
Rejection (F _C +2.5 MHz to 120 MHz) ²	50	55	-	dB
Rejection (120 MHz to 124 MHz) ²	47	50	-	dB
Rejection (124 MHz to 500 MHz) ^{2,3}	50	55	-	dB
Minimum Insertion Loss	-	17.2	19	dB
Passband Amplitude Ripple	-	0.6	1.0	dB p-p
Passband Phase Ripple	-	1.5	5	deg p-p
Group Delay Ripple	-	75	120	ns p-p
Source/Load Impedance	-	50	-	Ω

- Notes:
1. This parameter is the average of the two 3 dB bandwidth points.
 2. Referenced to the minimum loss of the device.
 3. Except for the Third Harmonic Response where the rejection limit is 20 dB minimum.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating Temperature Range	-30	80	°C
Input Power Level	-	10	dBm

MATCHING CIRCUIT



Typical component values:

$$Ls1 = 180 \text{ nH}$$

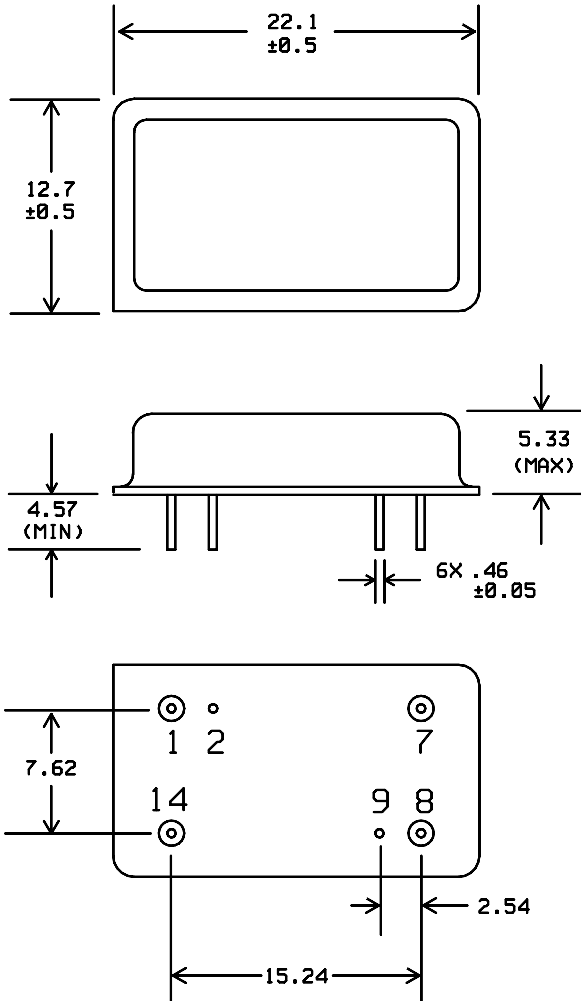
$$Ls2 = 200 \text{ nH}$$

$$Cp2 = 39 \text{ pF}$$

Notes:

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

PACKAGE OUTLINE



Units: mm

Tolerances are typically ± 0.15 mm except for those shown.

Pin Configuration:

Input:	1
Input return:	14
Output:	8
Output return:	7
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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