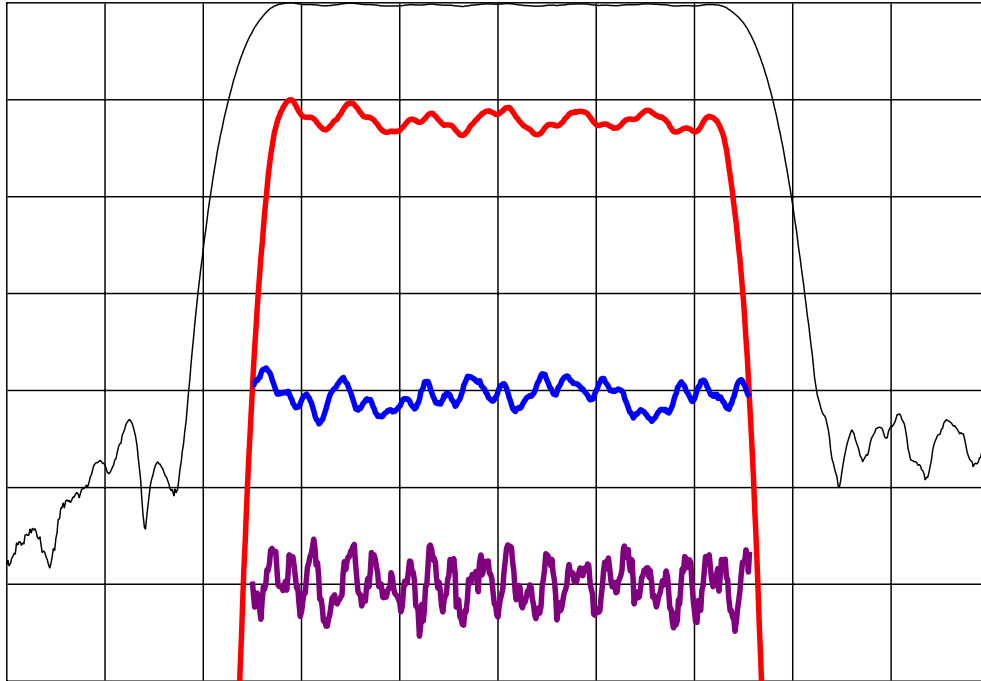


## DESCRIPTION

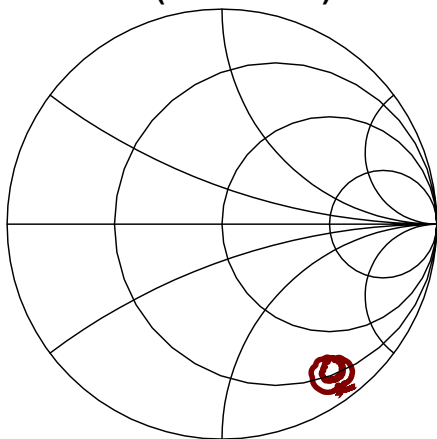
- 44 MHz SAW bandpass filter with 6 MHz bandwidth.
- 35 X 20 mm 24 pin DIP package.
- RoHS compliant.

## TYPICAL PERFORMANCE

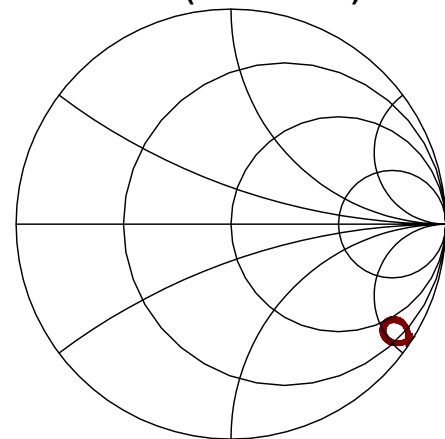


Horizontal:	Frequency :	1.2	MHz/div
Vertical:	Relative Magnitude :	10	dB/div
	Relative Magnitude :	1	dB/div
	Phase Linearity :	2.5	deg/div
	Group Delay :	50	ns/div

**S11 (38-50 MHz)**



**S22 (38-50 MHz)**



## SPECIFICATION

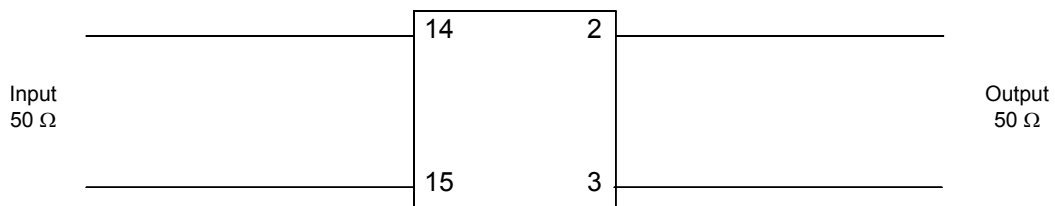
Parameter	Min	Typ	Max	Units
Center Frequency ( Fc) <sup>1</sup>	43.8	44.0	44.2	MHz
Insertion Loss <sup>2</sup>	-	21.5	23.0	dB
1 dB Bandwidth	5.5	5.7	-	MHz
3 dB Bandwidth	6.0	6.1	-	MHz
38 dB Bandwidth	-	7.6	8.0	MHz
Passband Amplitude Ripple <sup>3</sup>	-	0.4	0.6	dB
Passband Phase Ripple <sup>3</sup>	-	1.5	3.0	deg p-p
Passband GD Ripple <sup>3</sup>	-	50	80	ns
Stopband Rejection( 10 to 39 MHz) <sup>3</sup>	40	45	-	dB
Stopband Rejection (49 to 80 MHz) <sup>3</sup>	40	45	-	dB
Absolute Delay	-	2.08	-	us
Passband Group Delay Ripple <sup>2</sup>	-	40	60	ns p-p
Source and Load Impedance	50			ohms
Temperature Coefficient of Frequency	-72			ppm/°C
Ambient Temperature	25			°C

Notes: 1. Mean value of the 3 dB band edge frequencies.  
 2. Defined at 44 MHz.  
 3. Dependent upon PC board layout.

## MAXIMUM RATINGS

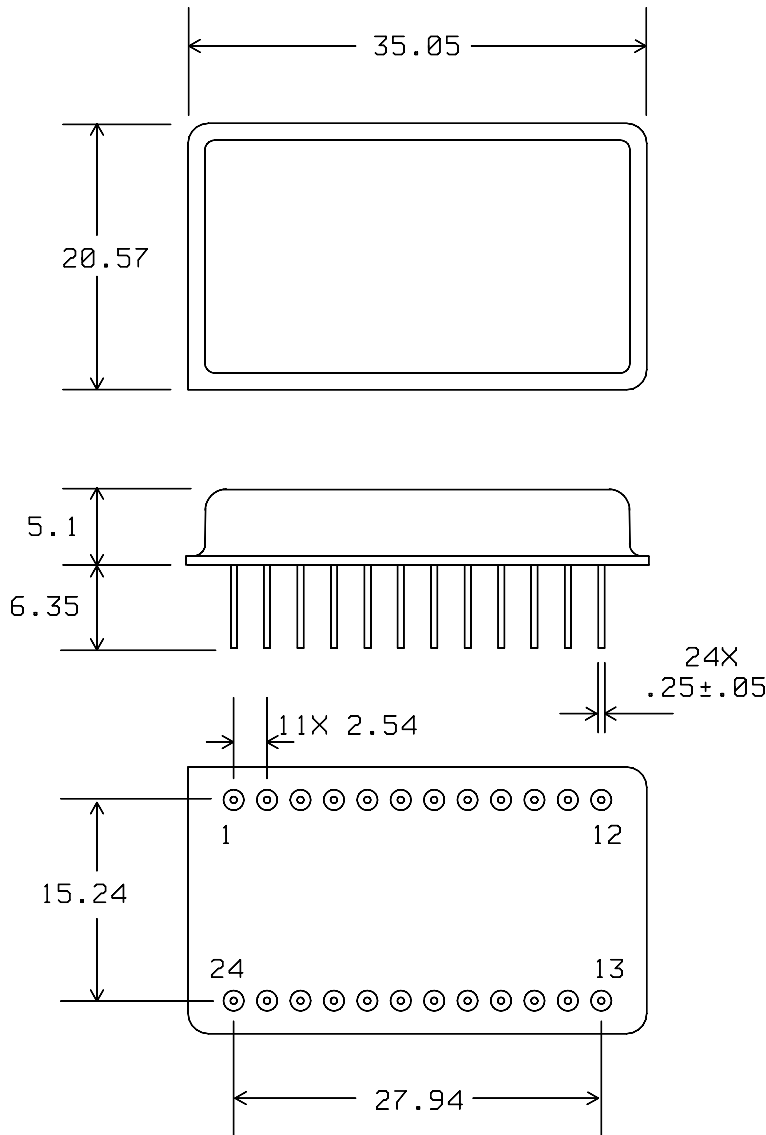
Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Input Power Level	-	13	dBm

## MATCHING CIRCUIT



Note: Matching components are not required.

**PACKAGE OUTLINE**



**Units:** mm

Tolerances are  $\pm 0.15$  mm except where indicated.

**Pin Configuration:**

Input:	14
Input return:	15
Output:	2
Output return:	3
Ground:	1, 4, 16

ISO 9001  
Registered

All specifications are believed to be accurate and reliable. However, Spectrum Microwave reserves the right to make changes without notice.  
© 2010 All rights reserved.