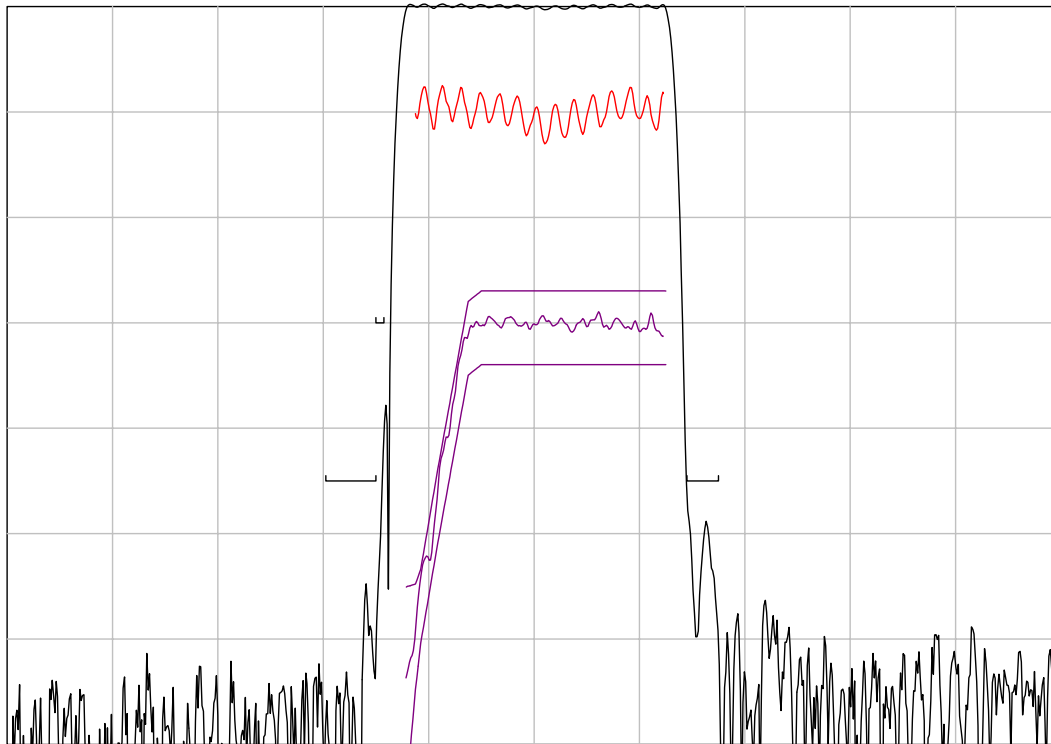


## DESCRIPTION

- 44 MHz SAW bandpass filter for VSB System M – IF applications.
- 35.1 x 20.6 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  
Group Delay Deviation : 50 ns/div

## SPECIFICATION

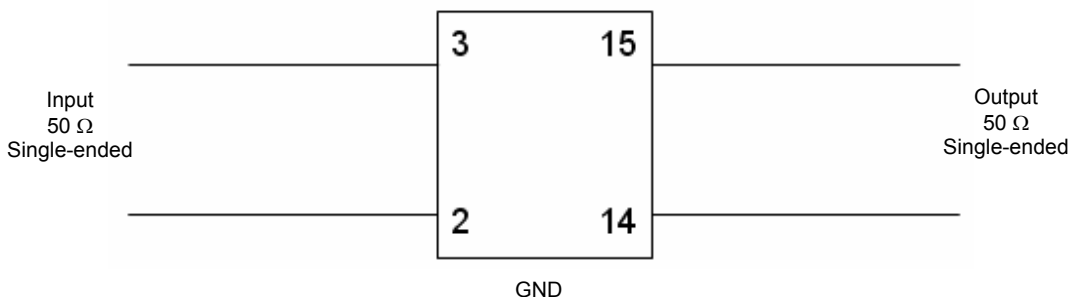
Parameter	Min	Typ	Max	Units
Center Frequency (Fo, nominal) <sup>1</sup>	-	44	-	MHz
Insertion Loss( average passband level)	-	27	29	dB
Passband Ripple <sup>2</sup>	-	0.6	0.8	dB p-p
Attenuation at 41.57 MHz	-	1.5	2	dB
Attenuation at 46.5 MHz	-	0.5	2	dB
Group Delay response at:				
45.75 MHz ( reference)	-	0	-	ns
41.57 MHz	-446	-346	-246	ns
41.75 MHz	-343	-293	-243	ns
41.85 MHz	-299	-264	-229	ns
42.17 MHz	-205	-170	-135	ns
42.75 MHz	-45	-10	25	ns
43.0 to 46.5 MHz	-35	0	35	ns
Rejection (20 to 40.15 MHz)	50	55	-	dB
Rejection ( 40.15 to 41.10 MHz)	45	48	-	dB
Rejection ( 41.10 to 41.25 MHz)	30	40	-	dB
Rejection ( 47.0 to 47.6 MHz)	45	50	-	dB
Rejection ( 47.6 to 60 MHz)	50	55	-	dB
Time domain spurious ( 3.5 -13 us After main signal)	50	57	-	dB
Delay at Fo	-	4.4	-	us
Ambient Temperature (Tref)	-	60	-	° C
Source/Load Impedance	-	50	-	Ω

- Notes: 1. Average of lower & upper 3 dB frequencies.  
2. Measured over 41.75 to 46.45 MHz.  
3. Typical change of filter frequency response with temperature is  $\Delta f = (T-T_{ref}) * T_c * F_c$ , in ppm.

## MAXIMUM RATINGS

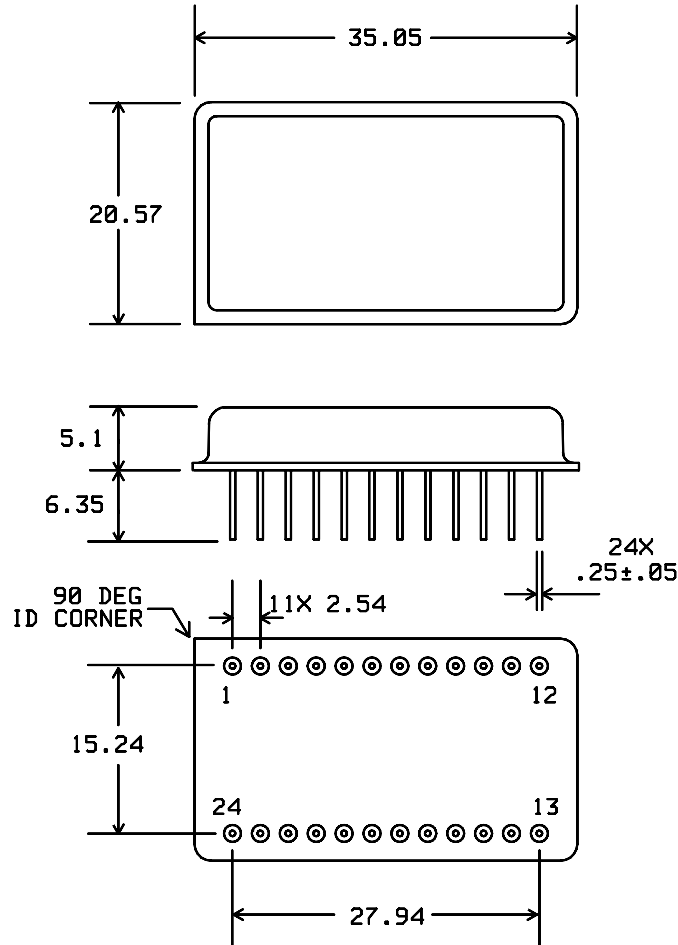
Parameter	Min	Typ	Max	Units
Storage Temperature Range	-40	60	85	°C
Temperature Coefficient of Frequency (Tc) <sup>3</sup>	-	-94	-	ppm/°C
Input Power Level	-	0	10	dBm

## MATCHING CIRCUIT



Note: External matching components are not required.

**PACKAGE OUTLINE**



**Units:** mm

Tolerances are  $\pm 0.15$  mm except for the overall length and width, which are nominal values.

**Pin Configuration:**

Input:	3
Input return:	2
Output:	15
Output return:	14
Ground:	All other pins

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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