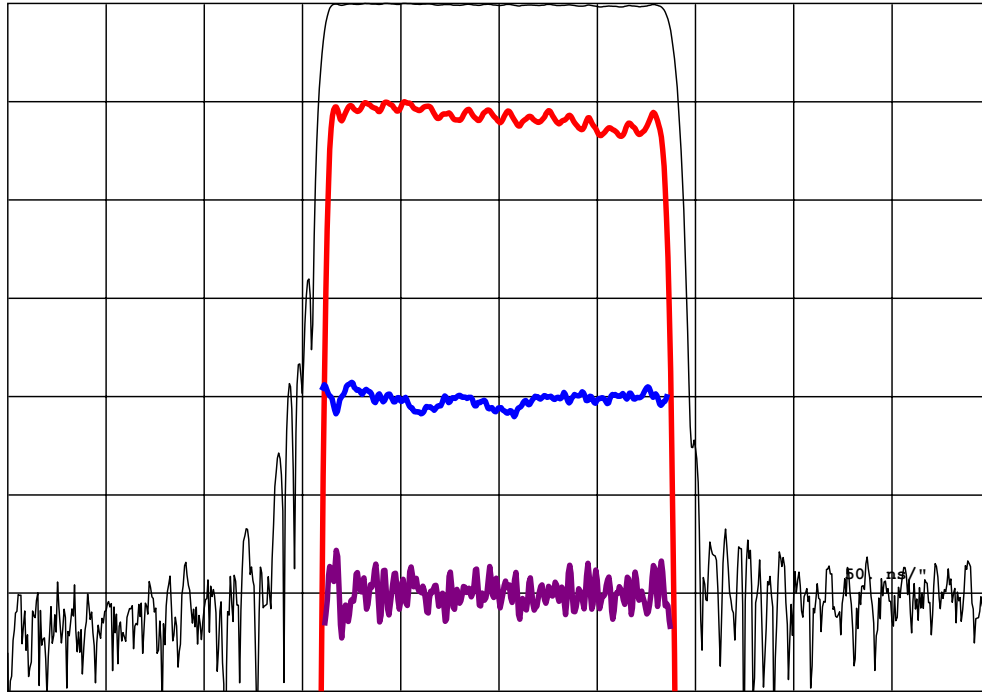


DESCRIPTION

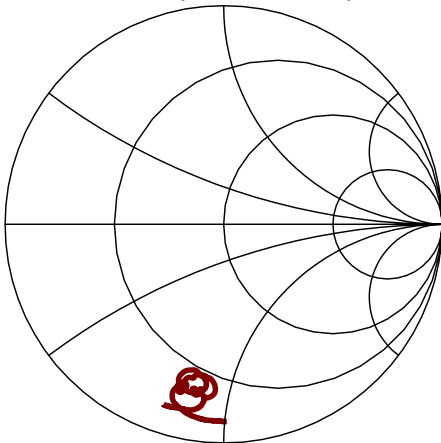
- 44 MHz SAW filter with 5 MHz bandwidth for VSB System M – IF applications.
- 38.6 x 25.6 mm DIP package.
- RoHS compliant.

TYPICAL PERFORMANCE

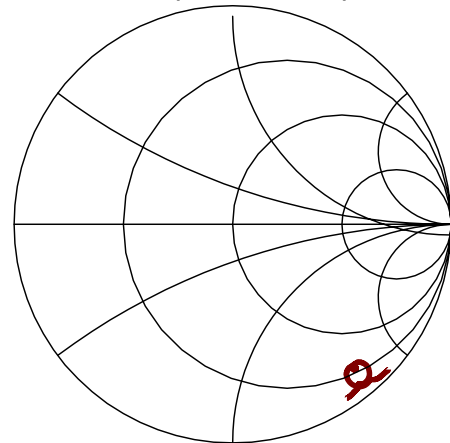


Horizontal: Frequency : 1.5 MHz/div
Vertical from Top: Relative Magnitude : 10 dB/div
Relative magnitude : 1 dB/div
Phase : 5 deg/div
Group Delay : 50 ns/div

S11 (37 to 52 MHz)



S22 (37 to 52 MHz)



SPECIFICATION

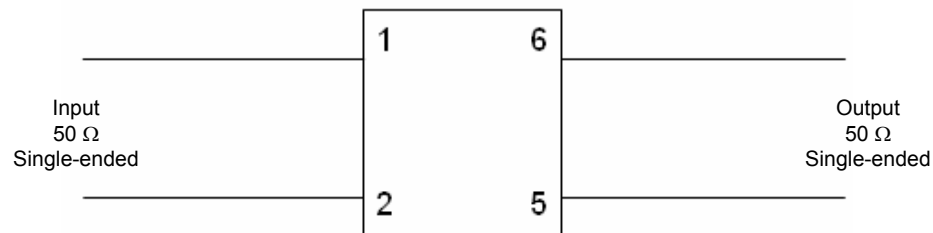
Parameter	Min	Typ	Max	Units
F_visual	-	45.75	-	MHz
F_color	-	42.17	-	MHz
F_audio	-	41.25	-	MHz
Center Frequency (Fc, nominal)	-	44	-	MHz
Insertion Loss	27	29	30	dB
1 dB Lower Band Edge ¹		41.51	41.55	MHz
1 dB Upper Band Edge ¹	46.55	46.59	-	MHz
Passband Ripple(41.55 - 46.50)	-	0.3	0.4	dB
Phase Deviation (41.55-46.50)	-	2	12	deg p-p
GD Ripple (41.55 - 46.50)	-	25	50	ns p-p
K factor, 2 T pulse ²	-	-	1.8	%
C/L delay, 12.5 T pulse ²	-15	-	+15	ns
Rejection (10 to 39.8 MHz) ¹	45	55	-	dB
Rejection at 41.25 MHz ¹	18	21	-	dB
Rejection at 47.0 MHz ¹	22	24	-	dB
Rejection (47.25 to 70 MHz) ¹	45	50	-	dB
Rejection (70 to 200 MHz) ¹	10	40	-	dB
Absolute Delay	-	5	-	μs
Ambient Temperature (Tref)	-	40	-	° C
Source/Load Impedance	-	50	-	Ω

- Notes: 1. Levels are relative to the insertion loss.
2. By design.
3. Typical change of filter frequency response with temperature is $\Delta f = (T - T_{ref}) * T_c * F_c$, in ppm.

MAXIMUM RATINGS

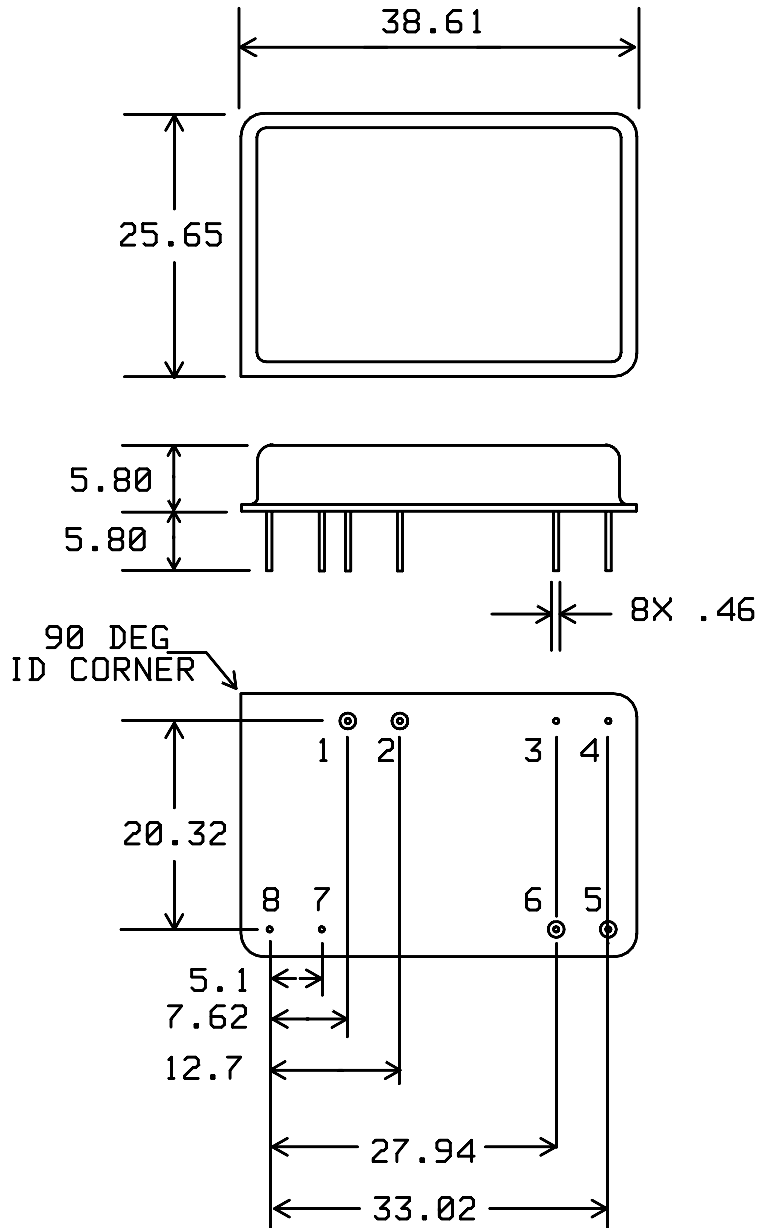
Parameter	Min	Typ	Max	Units
Storage Temperature Range	-40	40	85	°C
Temperature Coefficient of Frequency (Tc) ³	-	-94	-	ppm/°C
Input Power Level	-	0	10	dBm

MATCHING CIRCUIT



Note: External matching components are not required.

PACKAGE OUTLINE



Units: mm

Dimensions are nominal in mm. All tolerances are ± 0.15 mm except overall length and width.

Pin Configuration:

Input:	1
Input Return:	2
Output:	6
Output Return:	5
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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