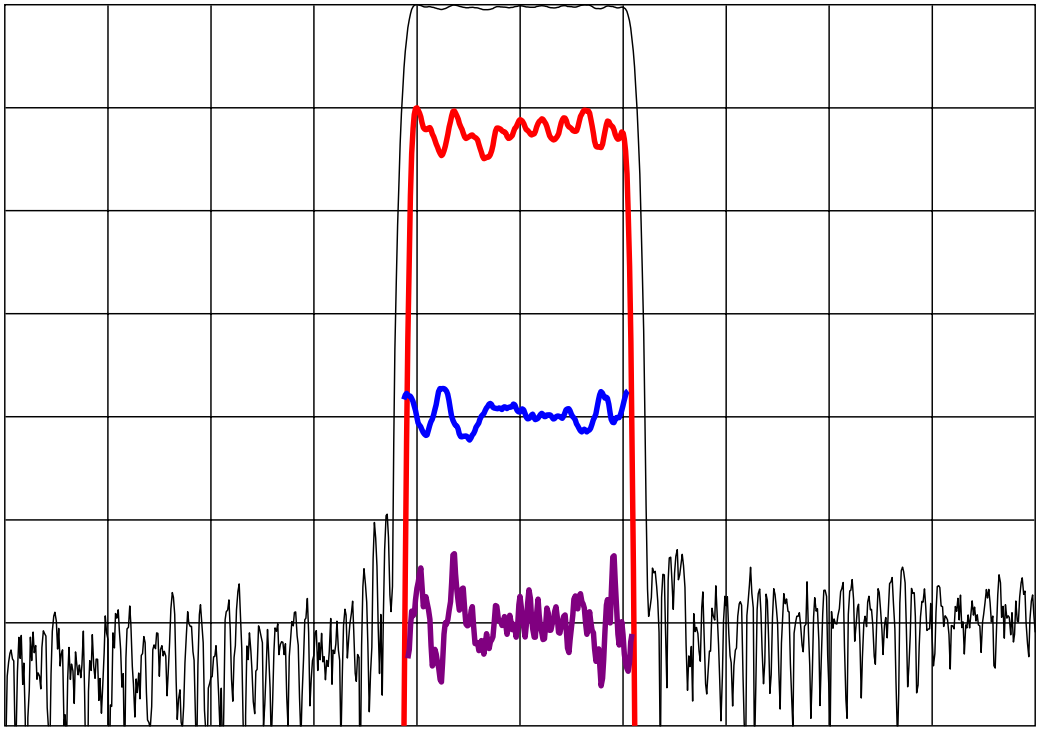
DESCRIPTION

- 44 MHz SAW bandpass filter for VSB System M – IF applications.
- 38.6 x 25.7 mm DIP package.
- RoHS compliant.

TYPICAL PERFORMANCE



Horizontal:	Frequency :	2.5	MHz/div
Vertical from Top:	Relative Magnitude :	10	dB/div
	Relative magnitude :	1	dB/div
	Phase :	5	deg/div
	Group Delay Deviation :	50	ns/div

SPECIFICATION

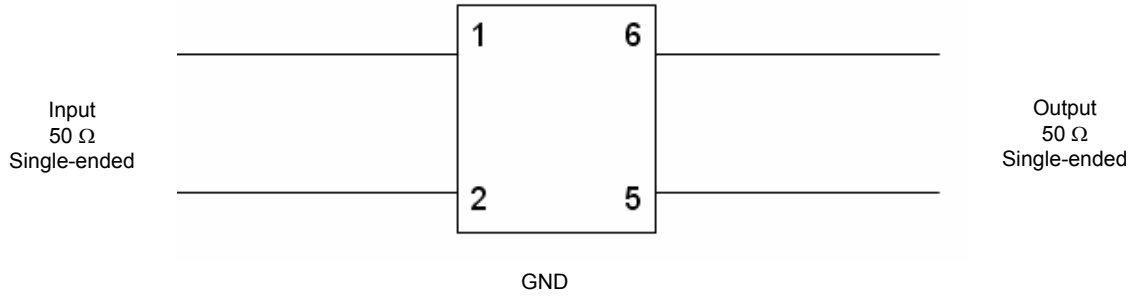
Parameter	Min	Typ	Max	Units
F_visual	-	45.75	-	MHz
F_color	-	42.17	-	MHz
F_audio	-	41.25	-	MHz
Center Frequency (Fc, nominal) [1]	-	43.85	-	MHz
Insertion Loss	27	28.5	30	dB
Lower 1 dB Band Edge	-	41.18	41.25	MHz
Upper 1 dB Band Edge	46.45	46.47	-	MHz
Passband Ripple (41.35 to 46.35 MHz)	-	0.5	0.6	dB
Phase Deviation (41.25 to 46.5 MHz)	-	3	5	deg p-p
Group Delay Ripple (41.25 to 46.5 MHz)	-	55	70	ns p-p
Rejection (20 to 39.8 MHz)	50	55	-	dB
Rejection (39.8 to 40.75 MHz)	45	50	-	dB
Rejection (47.0 to 47.25 MHz)	50	55	-	dB
Rejection (48.0 to 80.0 MHz)	50	55	-	dB
2T K Factor	-	0.6	-	%
Pulse to Bar Ratio	-	3	-	%
Absolute Delay	4	4.41	5	us
Ambient Temperature (Tref)	-	25	-	° C
Source/Load Impedance	-	50	-	Ω

Notes: 1. Average of lower & upper 3 dB frequencies.
2. Typical change of filter frequency response with temperature is $\Delta f = (T-T_{ref})*Tc*Fc$, in ppm.

MAXIMUM RATINGS

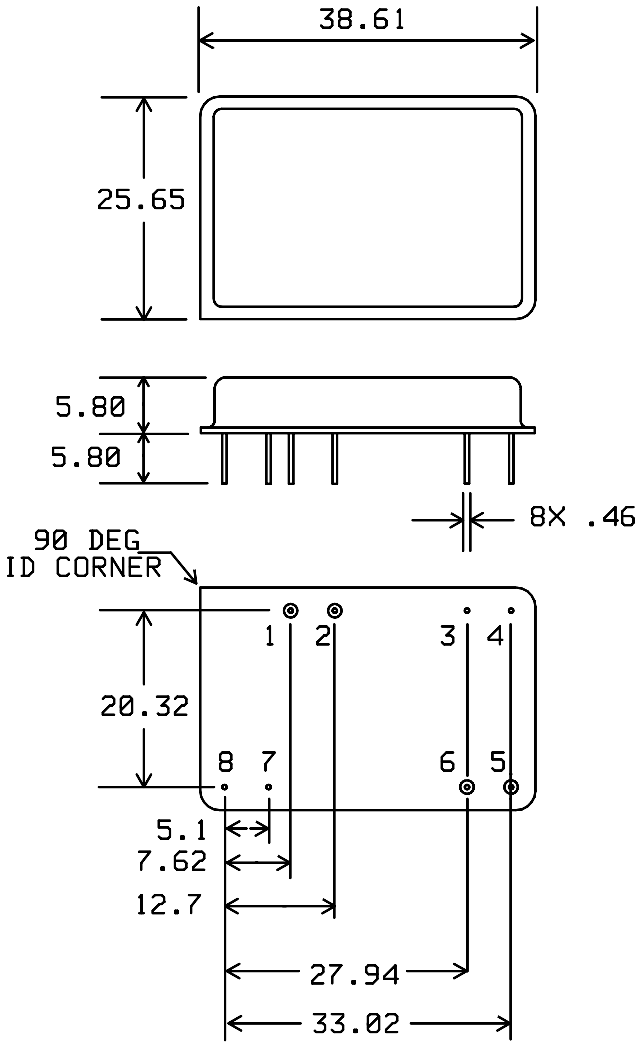
Parameter	Min	Typ	Max	Units
Storage Temperature Range	-40	25	85	˚C
Temperature Coefficient of Frequency (Tc) [2]	-	-94	-	ppm/˚C
Input Power Level	-	0	10	dBm

MATCHING CIRCUIT



Note: External matching components are not required.

PACKAGE OUTLINE



Units: mm

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

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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