

DESCRIPTION

- 36 MHz SAW bandpass filter with 5.75 MHz bandwidth.
- 38.6 x 25.7 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
Group Delay Deviation : 200 ns/div

SPECIFICATION

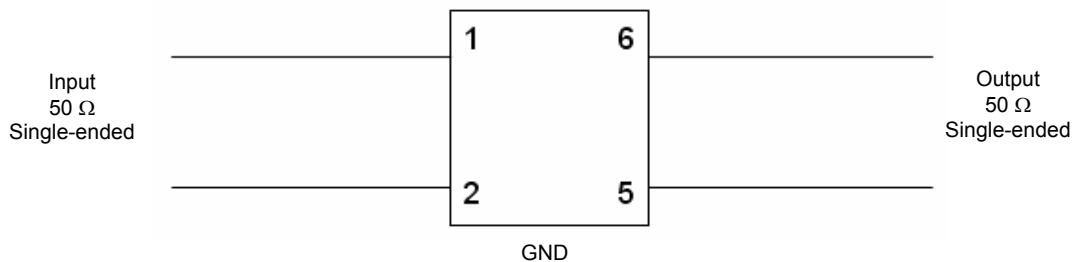
Parameter	Min	Typ	Max	Units
F _{visual}	-	38.9	-	MHz
F _{color}	-	34.47	-	MHz
F _{audio}	-	33.5	-	MHz
Center Frequency (F _c , nominal) ¹	-	36.7	-	MHz
Insertion Loss	-	30	32	dB
1 dB Lower band edge	-	33.75	33.9	MHz
1 dB upper band edge	39.65	39.80	-	MHz
Passband Ripple (34.05 to 39.5 MHz)	-	0.6	1	dB
Group Delay response at:				
38.90 MHz (reference)	-	0	-	ns
37.90 MHz	28	53	78	ns
36.90 MHz	65	90	115	ns
35.90 MHz	50	75	100	ns
35.15 MHz	-25	0	25	ns
34.47 MHz	-220	-170	-120	ns
34.10 MHz	-500	-400	-300	ns
Rejection (10 - 31.90)	40	50	-	dB
Rejection (31.9 - 33.4)	40	45	-	dB
Rejection (40.4 - 70.0)	40	45	-	dB
Rejection (40.15 - 40.4)	40	45	-	dB
Ambient Temperature (T _{ref})	-	50	-	deg 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 $\Delta f = (T - T_{ref}) * T_c * F_c$, in ppm.

MAXIMUM RATINGS

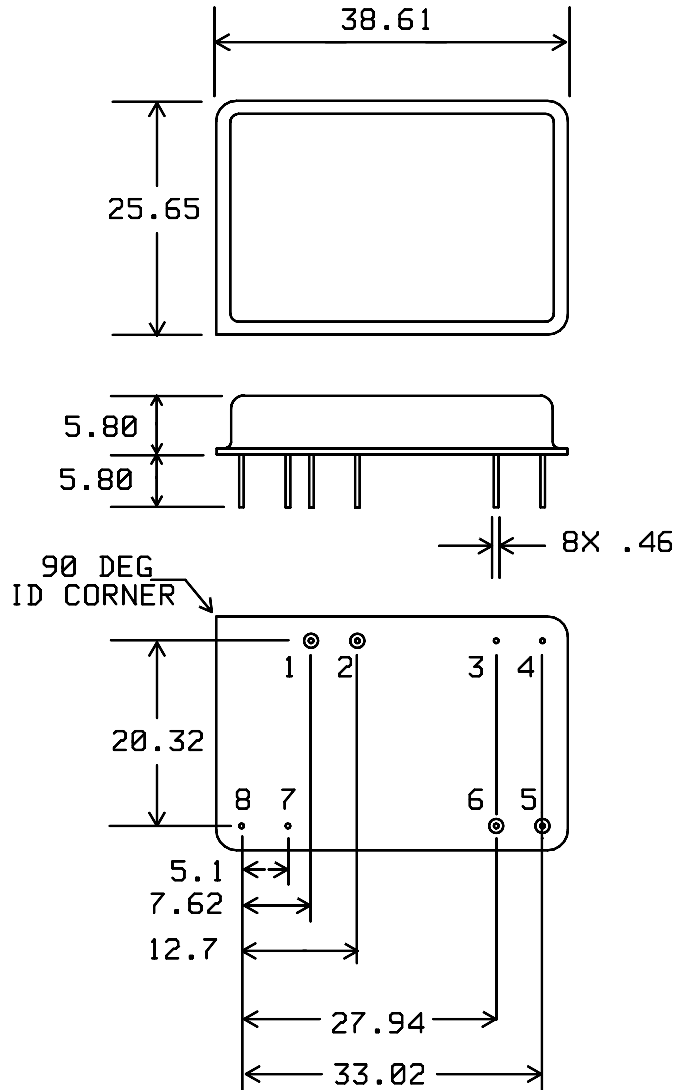
Parameter	Min	Typ	Max	Units
Storage Temperature Range	-40	50	85	°C
Temperature Coefficient of Frequency (T _c) ²	-	-94	-	ppm/°C
Input Power Level	-	0	10	dBm

MATCHING CIRCUIT



- Notes:
1. 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:	3,4,7,8

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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