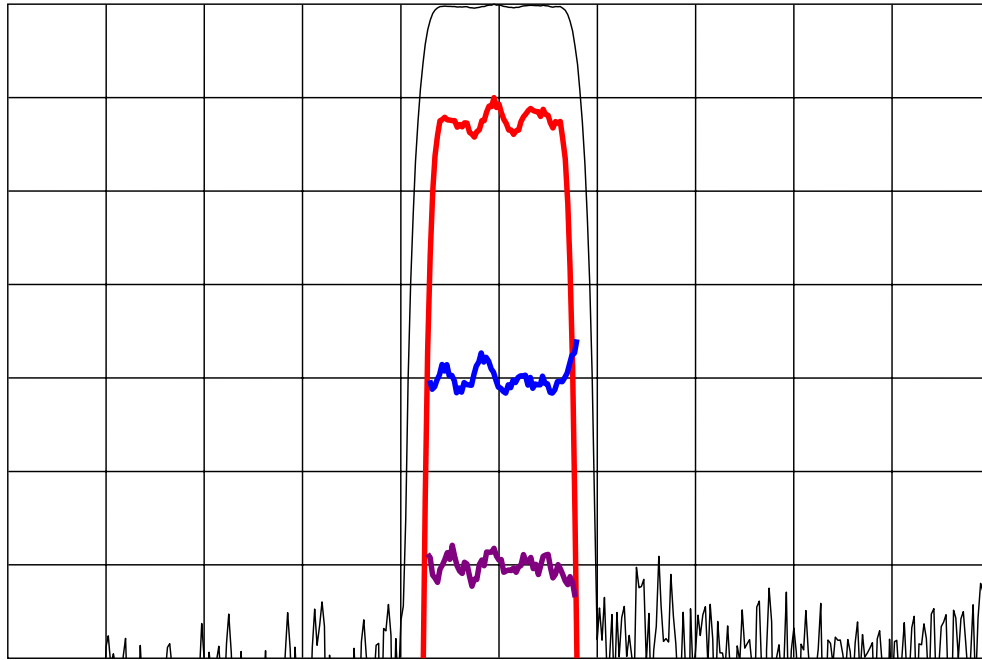


DESCRIPTION

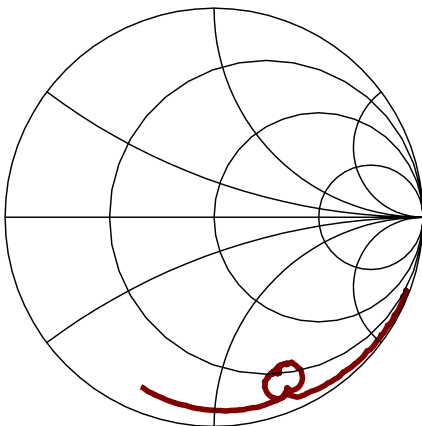
- 70 MHz SAW bandpass filter with 7 MHz bandwidth.
- 22.1 x 12.7 mm DIP package.
- RoHS compliant.

TYPICAL PERFORMANCE

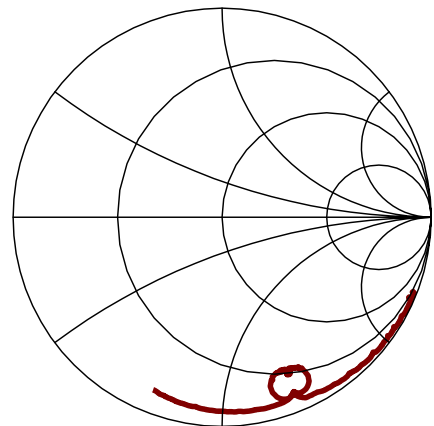


Horizontal:	Frequency :	5	MHz/div
Vertical from Top:	Relative Magnitude :	10	dB/div
	Relative magnitude :	1	dB/div
	Phase Linearity :	5	deg/div
	Group Delay :	50	ns/div

S11



S22



SPECIFICATION

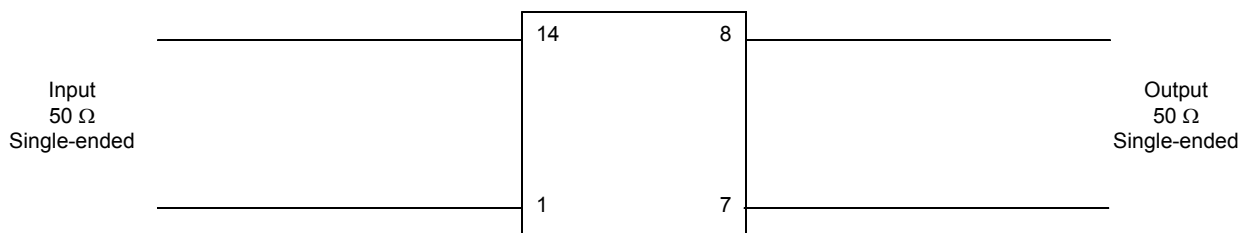
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	69.9	70.0	70.1	MHz
Insertion Loss at Fc	-	20.3	22	dB
1 dB Bandwidth ²	6.5	6.8	-	MHz
3 dB Bandwidth ²	7	7.3	-	MHz
40 dB Bandwidth ²	-	9.3	9.7	MHz
Passband Ripple ³	-	0.4	0.8	dB p-p
Phase Ripple	-	2	4	deg p-p
Group Delay Ripple ⁴	-	30	60	ns p-p
Absolute Delay	-	2.2	-	μs
Rejection (20 to 64 MHz) ²	50	60	-	dB
Rejection (76 to 105 MHz) ²	50	60	-	dB
Source and Load Impedance	-	50	-	Ω
Ambient Temperature (Tref)	-	25	-	°C

- Notes:
1. Average of lower and upper 3 dB band edge frequencies.
 2. Relative to level at Fc.
 3. Excludes band edge transitions.
 4. A smoothing aperture of 250 kHz may be applied to Group Delay Ripple measurement.
 5. Typical change of filter frequency response with temperature is $\Delta f = (T-T_{ref}) * T_c * F_c$, in ppm

MAXIMUM RATINGS

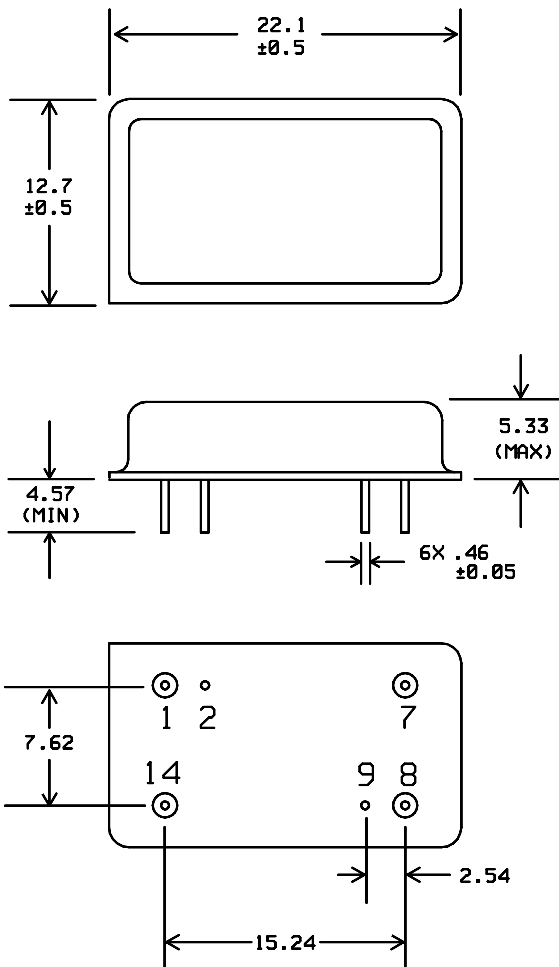
Parameter	Min	Typ	Max	Units
Storage Temperature Range	-40	25	85	°C
Temperature Coefficient of Frequency (Tc) ⁵	-	-94	-	ppm/°C
Input Power Level	-	-	10	dBm

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:	14
Input return:	1
Output:	8
Output return:	7
Ground:	2, 9

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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