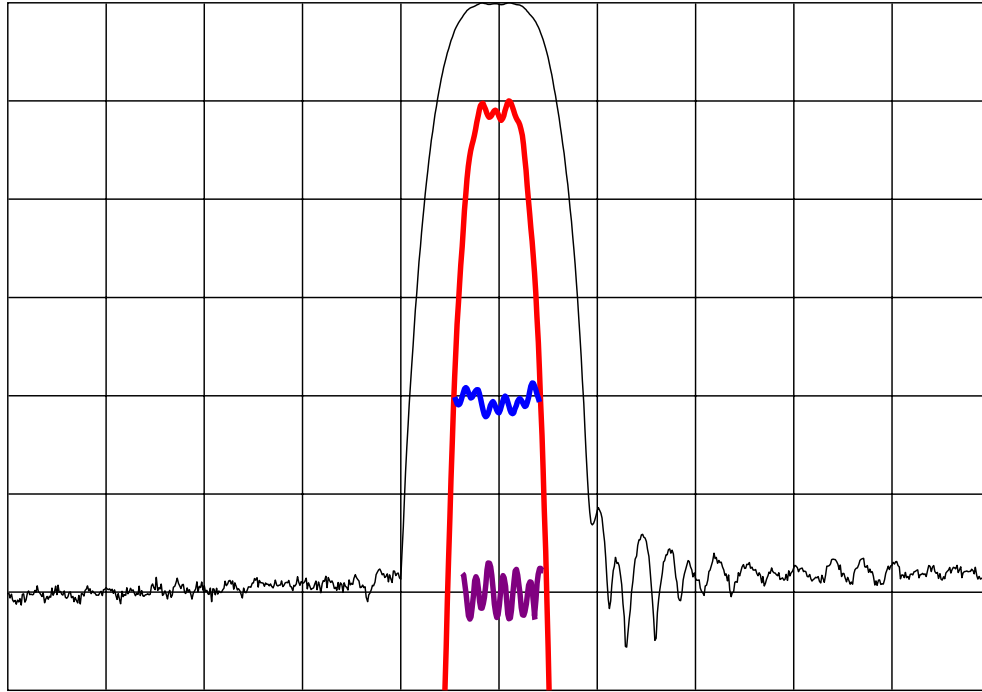


DESCRIPTION

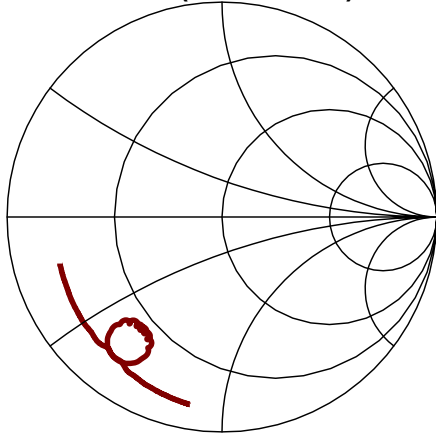
- 70 MHz SAW bandpass filter with 0.7 MHz bandwidth.
- 22.1 x 12.7 mm DIP package.
- RoHS compliant.

TYPICAL PERFORMANCE

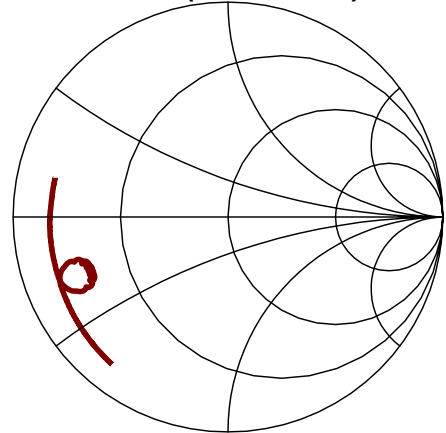


Horizontal: Frequency : 1 MHz/div
 Vertical from top: Relative Magnitude : 10 dB/div
 Relative magnitude : 1 dB/div
 Phase Linearity : 5 deg/div
 Group Delay Deviation : 200 ns/div

S11 (65-75 MHz)



S22 (65-75 MHz)



SPECIFICATION

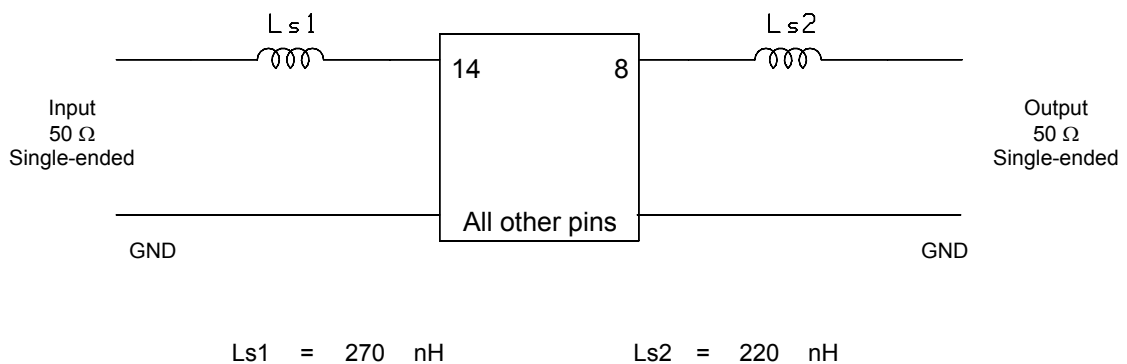
Parameter	Min	Typ	Max	Units
Center Frequency, F_c ¹	69.93	70	70.07	MHz
Insertion Loss	-	18	23	dB
1 dB Bandwidth ²	0.58	0.65	-	MHz
3 dB Bandwidth ²	0.70	0.87	-	
40 dB Bandwidth ²	-	1.77	2	MHz
50 dB Bandwidth ²	-	1.87	-	MHz
Passband Variation ³	-	0.3	0.4	dB p-p
Phase Ripple ³	-	2	4	deg p-p
Group Delay Ripple ³	-	160	300	ns p-p
Absolute Delay	-	3.6	-	us
Ultimate Rejection	50	60	-	dB
Material Coefficient of Frequency	-	-0.032	-	ppm/°C ²
Source/Load Impedance	50			ohms
Ambient Temperature	-	25	-	°C

- Notes:
1. Defined as the average of the lower and upper 3 dB frequencies.
 2. All dB levels are defined relative to the insertion loss.
 3. Measured over $F_c \pm 0.3$ MHz.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Input Power Level	-	13	dBm

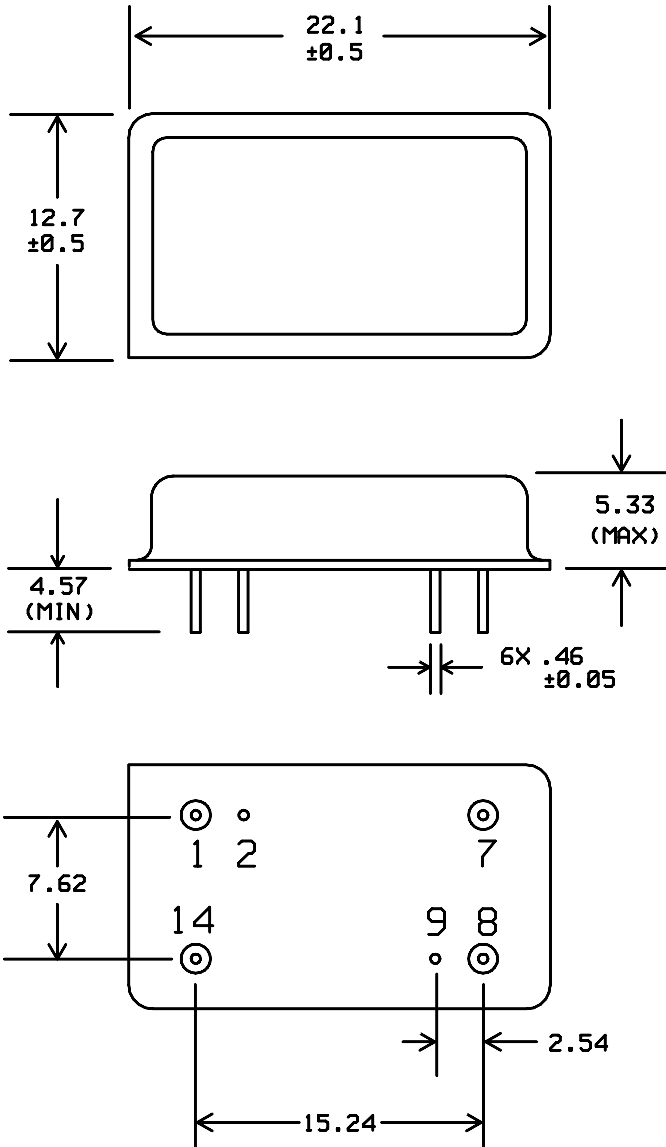
MATCHING CIRCUIT



Notes:

1. Recommend use of 2% tolerance matching components. Typical inductor $Q = 45$.
2. Component values shown are for guidance only and may change depending on board layout

PACKAGE OUTLINE



Units: mm

Tolerances are typically ± 0.15 mm except where indicated.

Pin Configuration:

Input:	14
Output:	8
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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