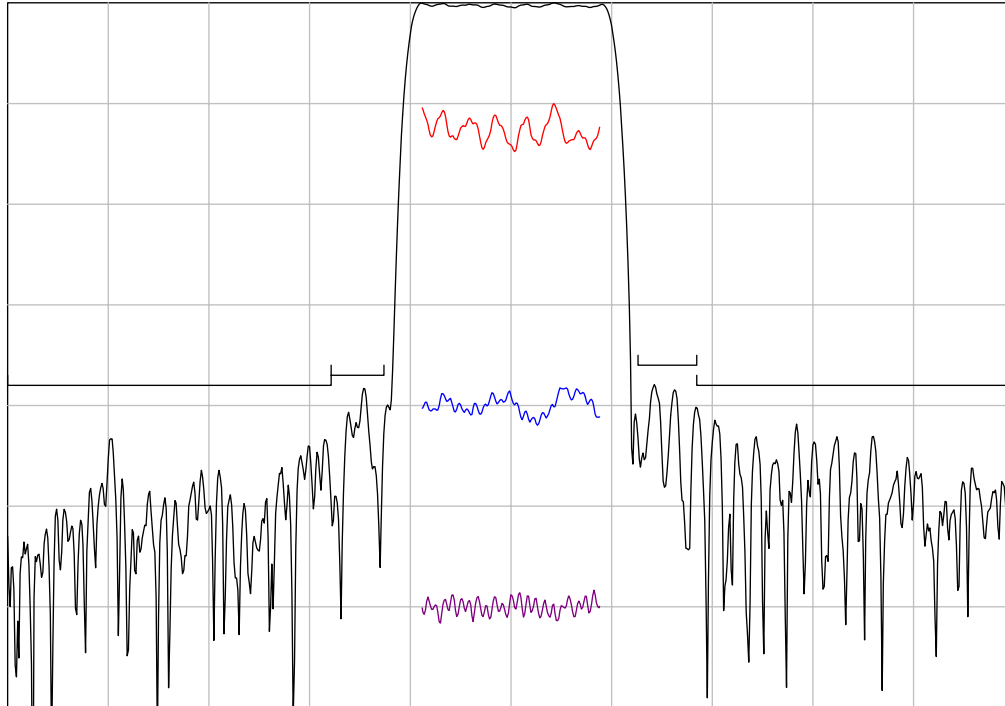


DESCRIPTION

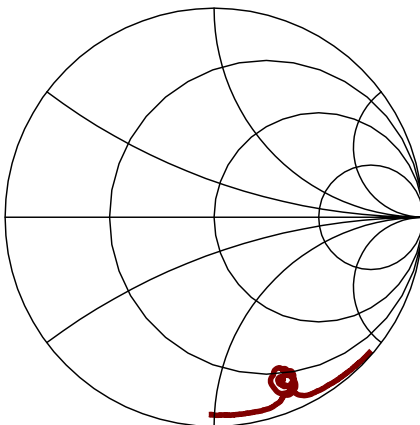
- 48 MHz SAW bandpass filter with 8 MHz bandwidth.
- 24 x 9 mm SMP.
- RoHS compliant.

TYPICAL PERFORMANCE

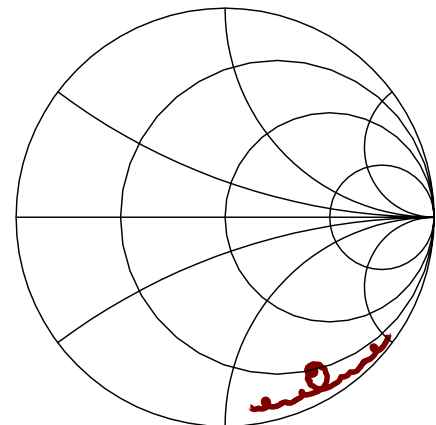


Horizontal: Frequency : 4.2 MHz/div
 Vertical from top: Relative Magnitude : 10 dB/div
 Relative magnitude : 1 dB/div
 Phase Linearity : 5 deg/div
 Group Delay Deviation : 100 ns/div

S11 (27 to 69 MHz)



S22 (27 to 69 MHz)



SPECIFICATION

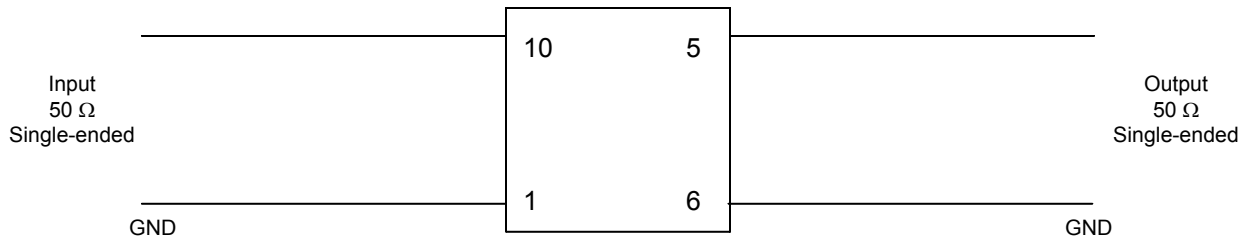
Parameter	Min	Typ	Max	Units
Center Frequency, F_C ¹	47.95	48.00	48.05	MHz
Minimum Insertion Loss	-	20.8	26.5	dB
1 dB Bandwidth ²	7.45	8.01	-	MHz
3 dB Bandwidth ²	8.00	8.41	-	
35 dB Bandwidth ²	-	10.28	10.50	MHz
Rejection (10 to 40.5 MHz) ²	38	41	-	dB
(40.5 to 42.75 MHz) ²	37	38	-	dB
(53.25 to 55.75 MHz) ²	36	37	-	dB
(55.75 to 72 MHz) ²	38	42	-	dB
Passband Amplitude Ripple ³	-	0.5	0.8	dB p-p
Passband Phase Ripple ³	-	2	5	deg p-p
Passband Group Delay Ripple ³	-	30	50	ns p-p
Absolute Delay	-	1.4	-	us
Temperature Coefficient of Frequency	-	-74	-	ppm/°C
Source/Load Impedance	50			ohms
Ambient Temperature ⁴	-	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 +/- 3.7 MHz at room ambient temperature.
 4. F_C will shift approximately +110 KHz at 0°C and -200 KHz at 70°C

MAXIMUM RATINGS

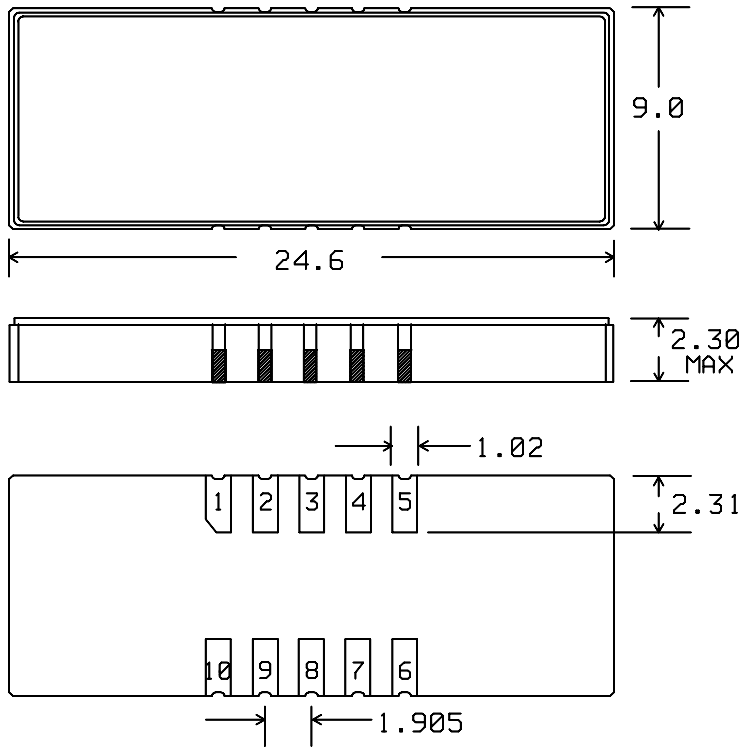
Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating Temperature Range	0	70	°C
Input Power Level		10	dBm

MATCHING CIRCUIT



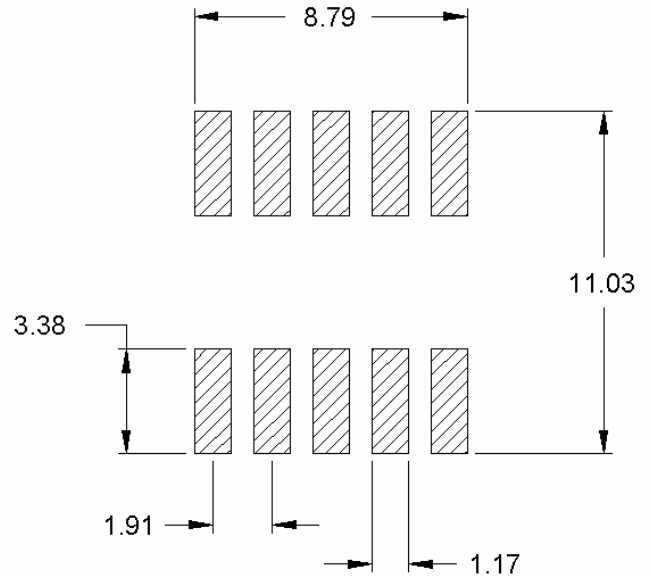
Note: Matching components are not required.

PACKAGE OUTLINE



Package Material:
 Body: Al_2O_3 ceramic
 Lid: Kovar, Ni plated
 Terminations: Au plating 1 μ m min,
 over a 1.3-8.9 μ m Ni plating

SUGGESTED FOOTPRINT

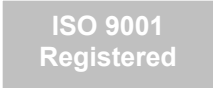


Units: mm

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

Pad Configuration:

Input: 10
 Output: 5
 Ground: 1,2,3,4,6,7,8,9



All specifications are believed to be accurate and reliable. However, Spectrum Microwave reserves the right to make changes without notice.
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