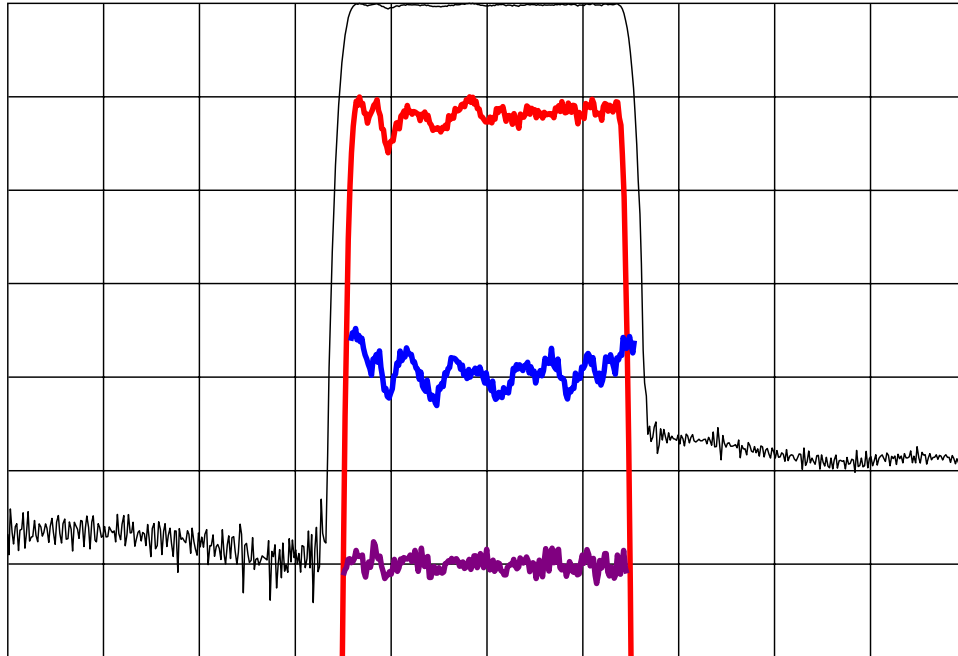


DESCRIPTION

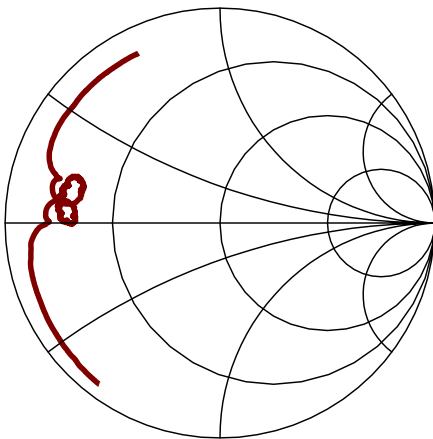
- 400 MHz SAW bandpass filter with 55 MHz bandwidth.
- 9 x 7 mm LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE

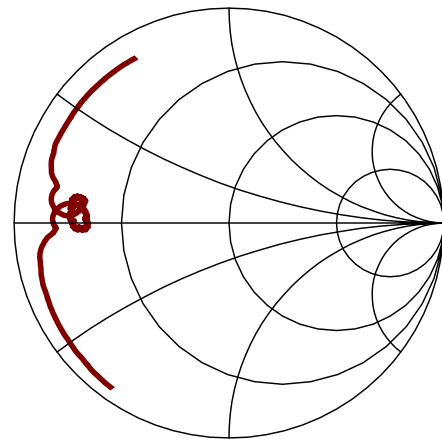


Horizontal: Frequency : 20 MHz/div
 Vertical from Top: Relative Magnitude : 10 dB/div
 Relative magnitude : 1 dB/div
 Phase Linearity : 5 deg/div
 Group Delay Deviation : 25 ns/div

S11 (300 to 500 MHz)



S22 (300 to 500 MHz)



SPECIFICATION

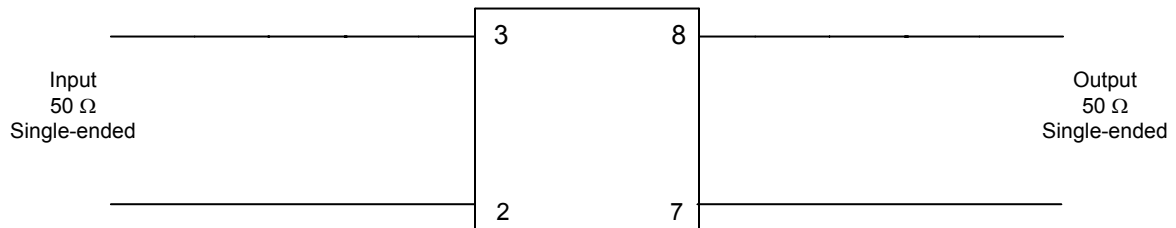
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	-	400	-	MHz
Minimum Insertion Loss	-	22.0	25	dB
Lower 1 dB Band Edge ²	-	371.32	372.50	MHz
Upper 1 dB Band Edge ²	427.50	428.48	-	MHz
Lower 20 dB Band Edge ²	367.50	368.15	-	MHz
Upper 20 dB Band Edge ²	-	431.62	432.50	MHz
Lower 40 dB Band Edge ²	360.00	367.00	-	MHz
Upper 40 dB Band Edge ²	-	432.80	440.00	MHz
Phase Linearity (Fc +/- 27 MHz)	-	4	9	deg p-p
Group Delay Ripple (Fc +/- 27 MHz) ³	-	15	40	ns p-p
Absolute Delay	-	800	-	ns
Amplitude Ripple (Fc +/- 27 MHz)	-	0.6	1	dB p-p
Rejection (100 MHz to 340 MHz)	45	55	-	dB
Rejection (460 MHz to 600 MHz)	45	48	-	dB
Source and Load Impedance	-	50	-	Ω
Ambient Temperature	-	25	-	$^{\circ}$ C
Temperature coefficient of frequency	-	-72	-	ppm/ $^{\circ}$ C

- Notes:
1. Average of the lower and upper 3 dB band edge frequencies.
 2. Parameter is measured relative to the minimum insertion loss.
 3. Measured using smoothing aperture of 1% of the swept bandwidth.
 4. Since no matching components are used, return loss will be low.

MAXIMUM RATINGS

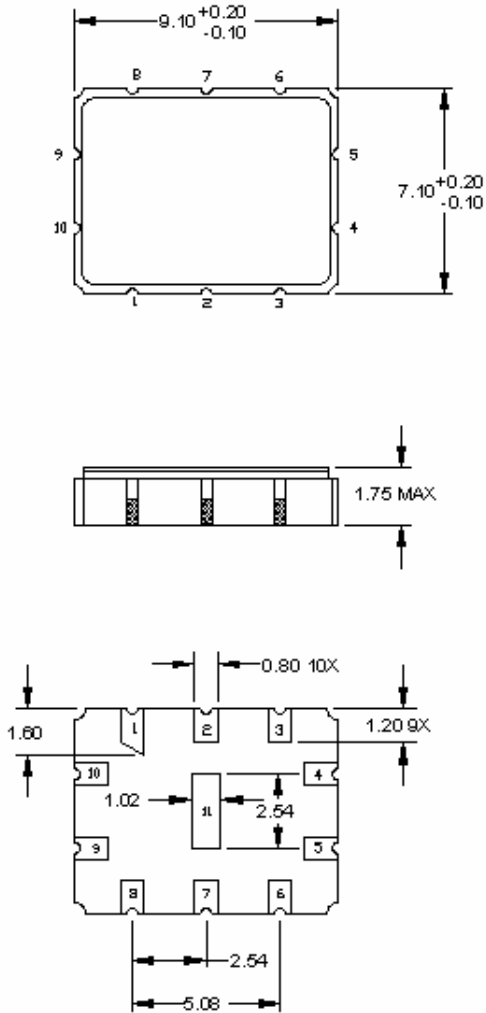
Parameter	Min	Typ	Max	Units
Storage Temperature Range	-40	25	85	$^{\circ}$ C
Operating Temperature Range	15	25	35	$^{\circ}$ C
Input Power Level	-	0	10	dBm

MATCHING CIRCUIT



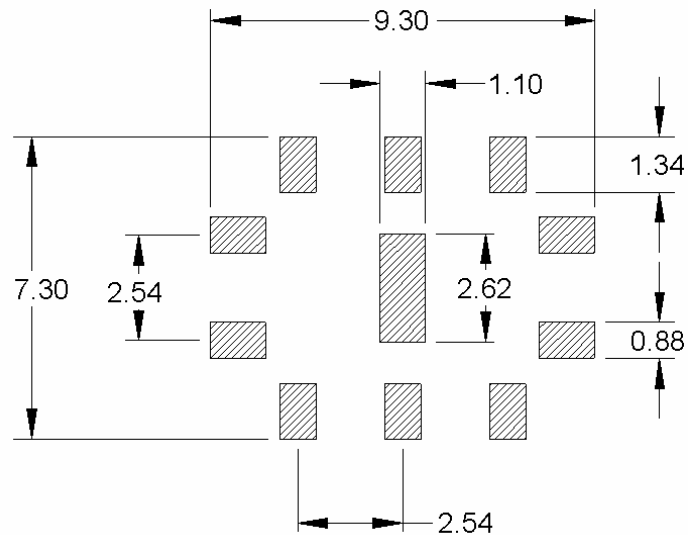
Note: External matching components are not required.

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

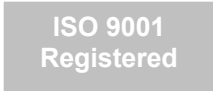


Units: mm

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

Pad Configuration:

- Input: 3
- Input return: 2
- Output: 8
- Output return: 7
- Ground : all other pads



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