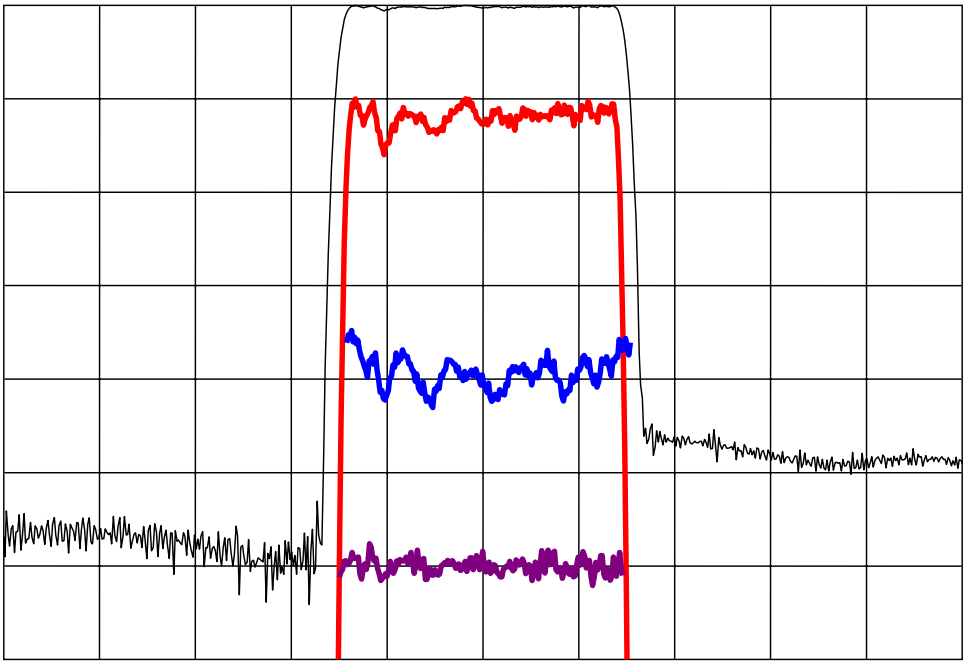
DESCRIPTION

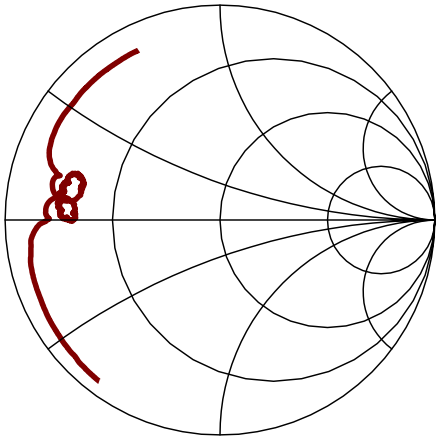
- 400 MHz SAW bandpass filter with 55 MHz bandwidth.
- 9 x 7 mm LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE

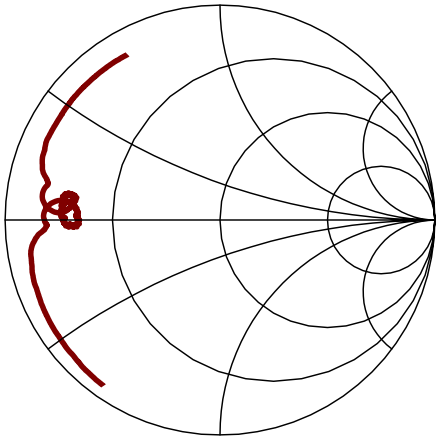


Horizontal:	Frequency :	20	MHz/div
Vertical from Top:	Relative Magnitude :	10	dB/div
	Relative magnitude :	1	dB/div
	Phase Linearity :	5	deg/div
	Group Delay Deviation :	25	ns/div

S11 (300 to 500 MHz)



S22 (300 to 500 MHz)



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SPECIFICATION

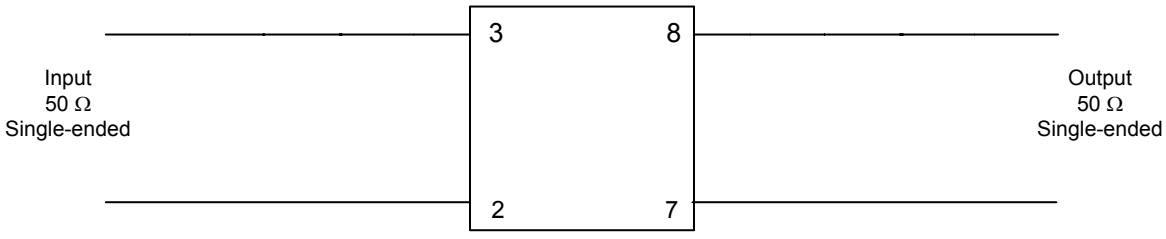
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) [1]	-	400	-	MHz
Minimum Insertion Loss	-	22.0	25	dB
Lower 1 dB Band Edge [2]	-	371.32	372.50	MHz
Upper 1 dB Band Edge [2]	427.50	428.48	-	MHz
Lower 20 dB Band Edge [2]	367.50	368.15	-	MHz
Upper 20 dB Band Edge [2]	-	431.62	432.50	MHz
Lower 40 dB Band 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	-	° C
Temperature coefficient of frequency	-	-72	-	ppm/°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

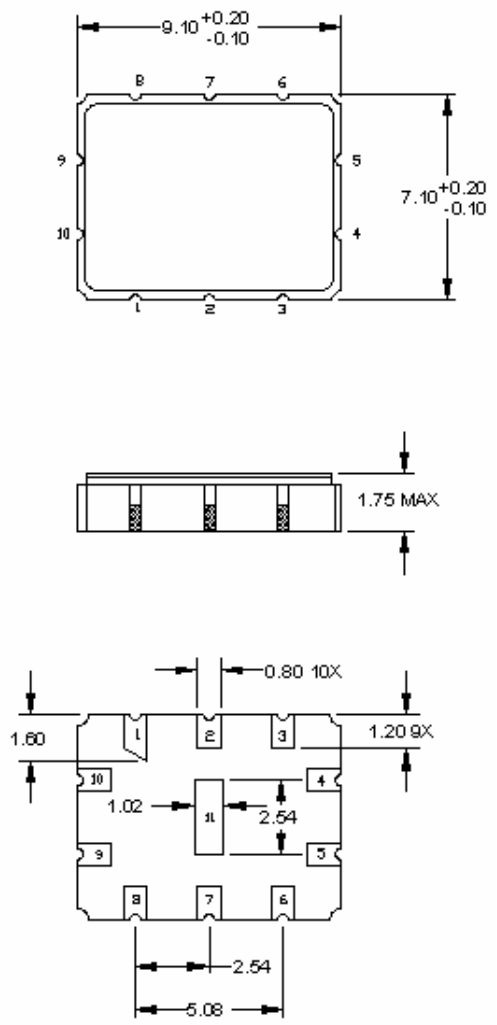
Parameter	Min	Typ	Max	Units
Storage Temperature Range	-40	25	85	˚C
Operating Temperature Range	15	25	35	˚C
Input Power Level	-	0	10	dBm

MATCHING CIRCUIT

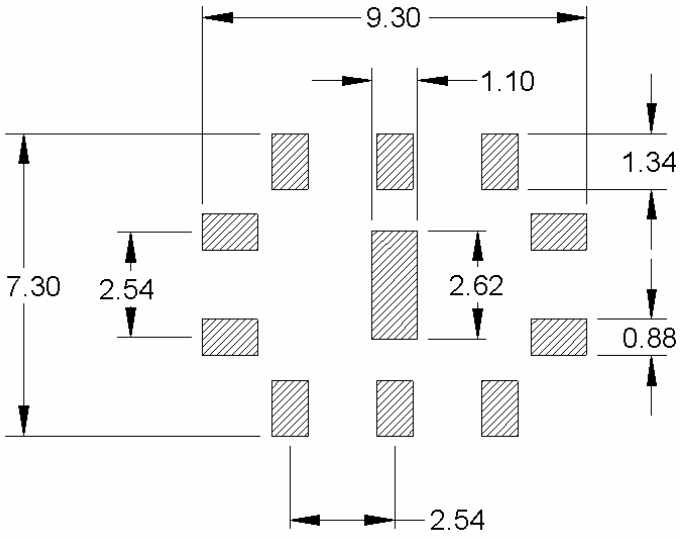


Note: External matching components are not required.

PACKAGE OUTLINE



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

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

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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