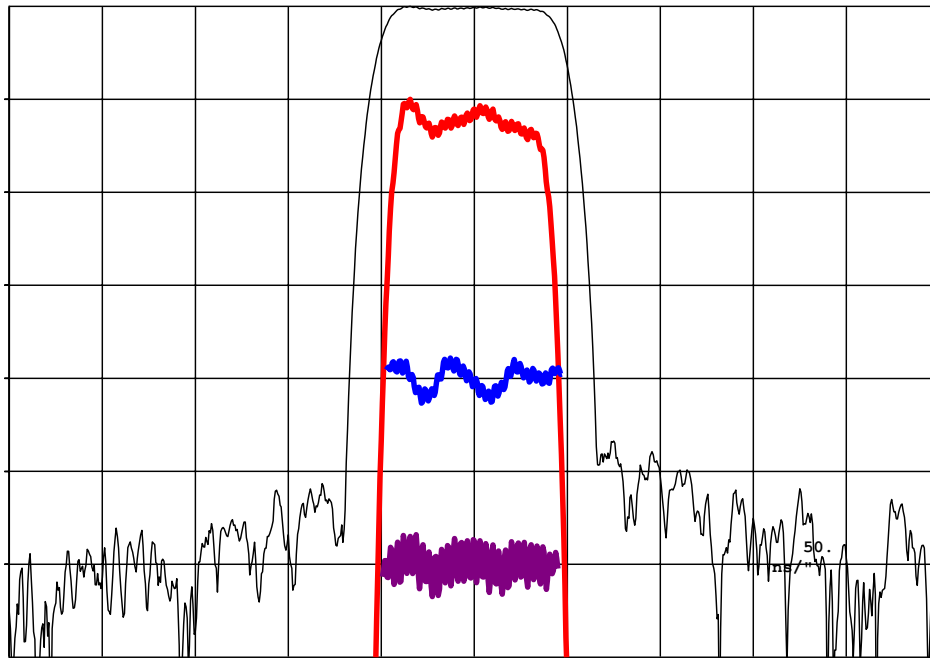


DESCRIPTION

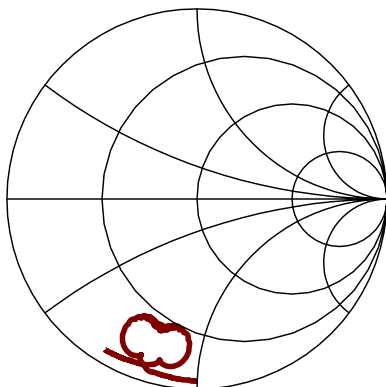
- 160 MHz SAW bandpass filter with 9.5 MHz bandwidth.
- 13.3 x 6.5 mm SMP.
- RoHS compliant.

TYPICAL PERFORMANCE

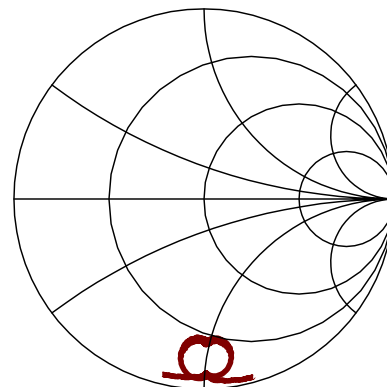


Horizontal:	Frequency :	6	MHz/div
Vertical from top:	Relative Magnitude :	10	dB/div
	Relative magnitude :	1	dB/div
	Phase Linearity :	5	deg/div
	Group Delay Deviation :	100	ns/div

S11 (130 to 190 MHz)



S22 (130 to 190 MHz)



SPECIFICATION

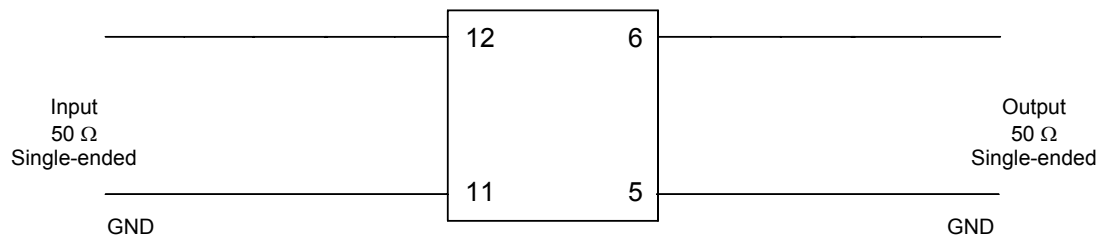
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	159.7	160.0	160.3	MHz
Insertion Loss at Fc	-	19	21	dB
1 dB Passband Width	9.5	10.2	-	
Lower 1dB Frequency	-	154.9	155.2	MHz
Upper 1dB Frequency	164.7	165.1	-	MHz
Lower 30 dB Band Edge	152.0	152.4	-	MHz
Upper 30 dB Band Edge	-	167.6	168.0	MHz
Passband Amplitude Ripple ²	-	0.4	0.5	dB p-p
Passband Group Delay Ripple ²	-	50	80	ns p-p
Rejection (10 to 152 MHz)	45	50	-	dB
Rejection (168 to 250 MHz)	45	50	-	dB
Ambient Temperature	-	25	-	°C
Source / Load Impedance	-	50	-	Ω
Temperature Coefficient of Frequency	-	-94	-	ppm/ °C
Substrate Material	YZ Lithium Niobate			

- Notes:
1. Fixed reference frequency. All bandwidths are centered at this frequency.
 2. defined over Fc +/- 4 MHz.
 3. Dependent on PC board layout.

MAXIMUM RATINGS

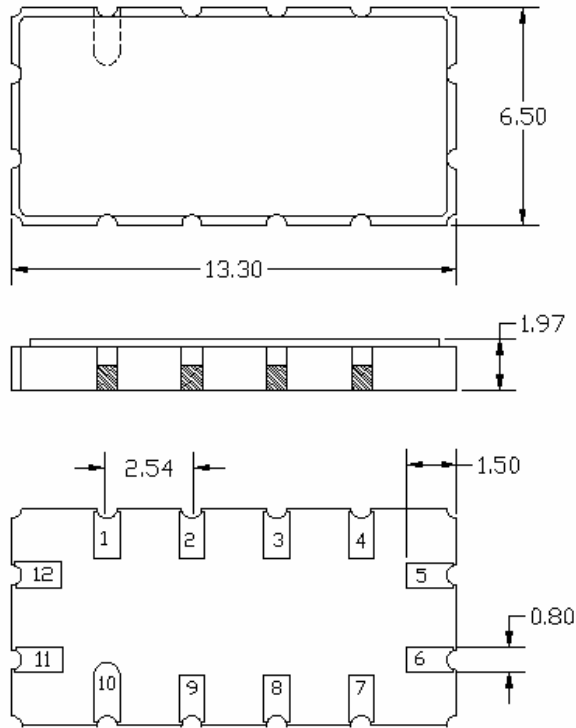
Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating Temperature Range	20	30	°C
Input Power Level		10	dBm

MATCHING CIRCUIT



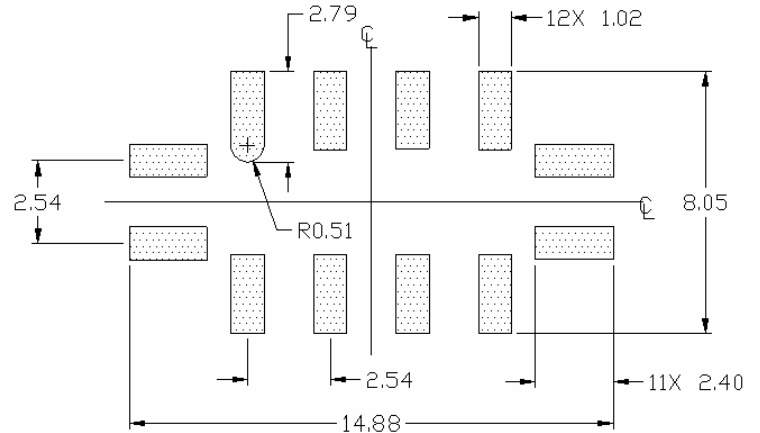
Note: External matching components are not required.

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 for the overall length, width and pad dimensions, which are nominal values.

Pad Configuration:

Input:	12
Input return:	11
Output:	6
Output return:	5
Ground:	1,2,3,4,7,8,9,10

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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