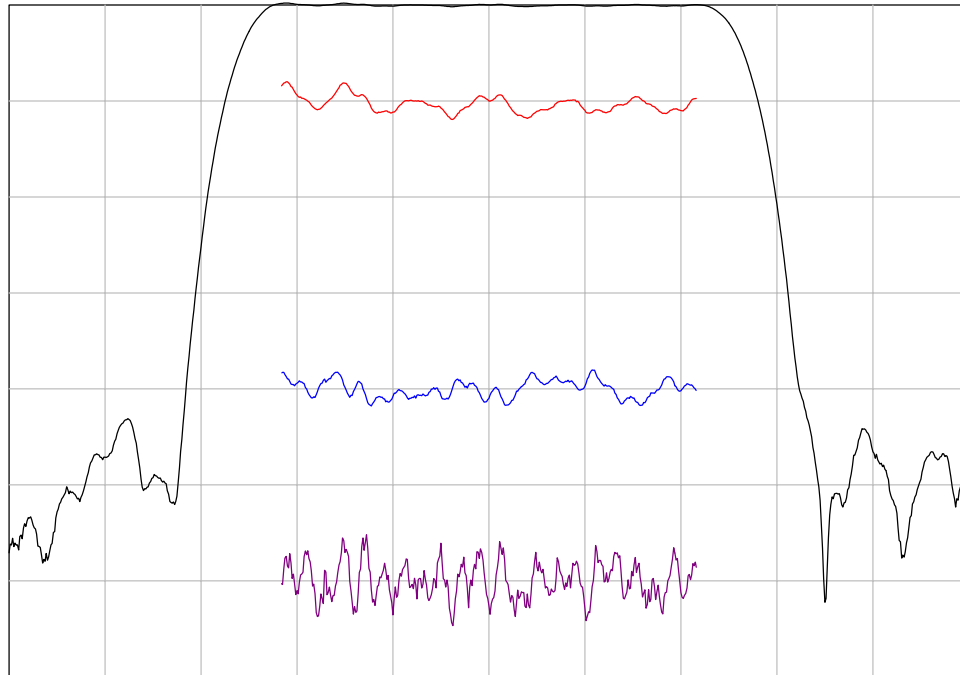


## DESCRIPTION

- 44 MHz SAW bandpass filter with 6 MHz bandwidth for Broadband Access.
- 24.6 x 9 mm SMP.
- RoHS compliant.

## TYPICAL PERFORMANCE



Horizontal:	Frequency :	1.2	MHz/div
Vertical from top:	Relative Magnitude :	10	dB/div
	Relative magnitude :	1	dB/div
	Phase Linearity :	3	deg/div
	Group Delay Deviation :	50	ns/div

## SPECIFICATION

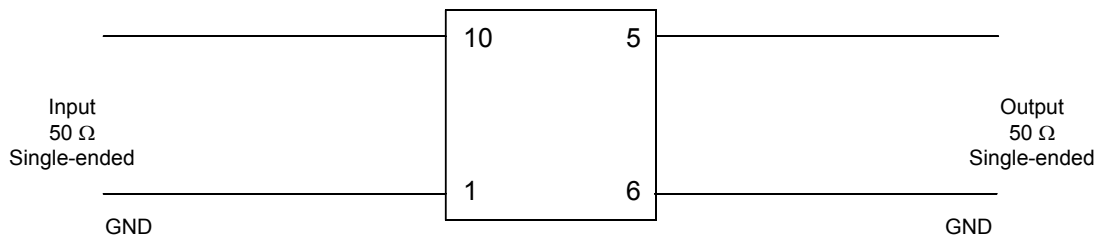
Parameter	Min	Typ	Max	Units
Center Frequency ( Fc ) <sup>1</sup>	43.8	44.0	44.2	MHz
Insertion Loss <sup>2</sup>	-	21.5	23	dB
1 dB Bandwidth	5.50	5.70	-	MHz
3 dB Bandwidth	6.00	6.10	-	MHz
38 dB Bandwidth	-	7.60	8.00	MHz
Passband Amplitude Ripple <sup>3</sup>	-	0.4	0.6	dB p-p
Passband Phase Ripple <sup>3</sup>	-	1.5	3	deg p-p
Passband Group Delay Ripple <sup>3</sup>	-	50	80	ns p-p
Rejection (10 to 39 MHz)	40	45	-	dB
Rejection (49 to 80 MHz)	40	45	-	dB
Absolute Delay	-	2.00	-	μs
Ambient Temperature	-	25	-	°C
Source / Load Impedance	-	50	-	Ω
Temperature Coefficient of Frequency	-	-72	-	ppm/ °C
Substrate Material	128 Lithium Niobate			

- Notes:
1. Defined as the average of the lower and upper 3 dB frequencies.
  2. Value at 44 MHz.
  3. Measured over Fc +/- 2.59 MHz.
  4. Specifications are guaranteed over the operating temperature range.

## MAXIMUM RATINGS

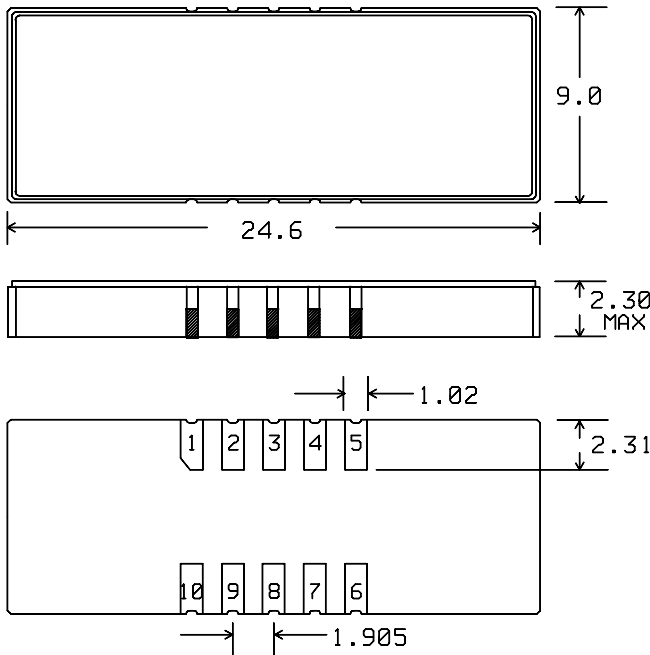
Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating Temperature Range	20	30	°C
Input Power Level		10	dBm

## MATCHING CIRCUIT



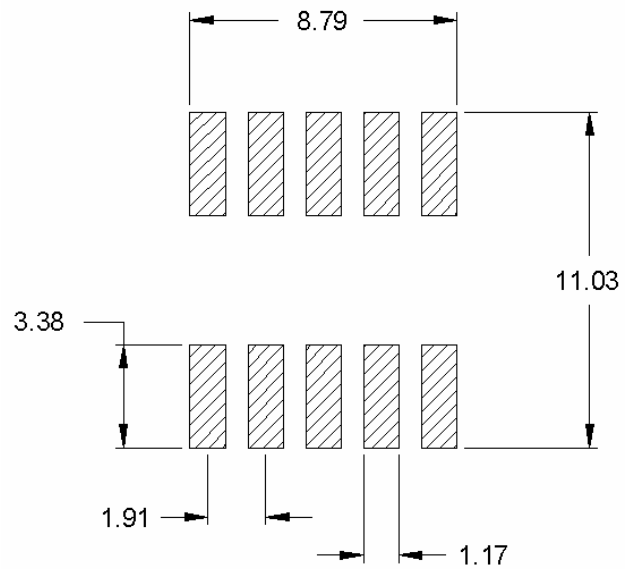
Note: External matching components are not required.

**PACKAGE OUTLINE**



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

**SUGGESTED FOOTPRINT**



**Units:** mm

Tolerances are  $\pm 0.15$  mm except for the overall length, width and pad dimensions, which are nominal values.

**Pad Configuration:**

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

ISO 9001  
Registered

All specifications are believed to be accurate and reliable. However, Spectrum Microwave reserves the right to make changes without notice.  
© 2010 All rights reserved.