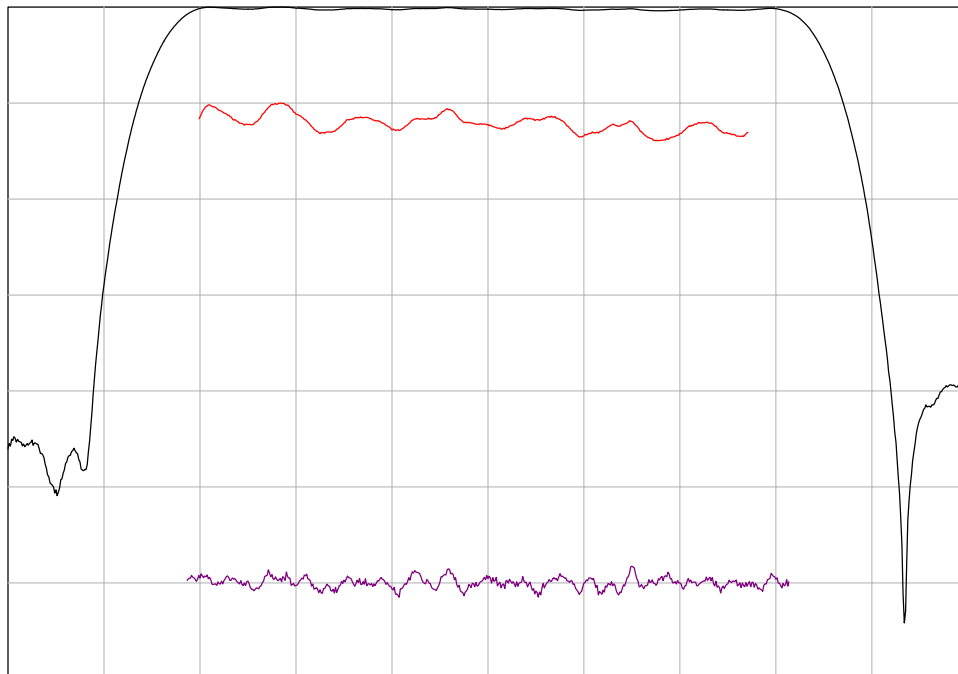


DESCRIPTION

- 44 MHz SAW bandpass filter with 8 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
Group Delay Deviation : 100 ns/div

SPECIFICATION

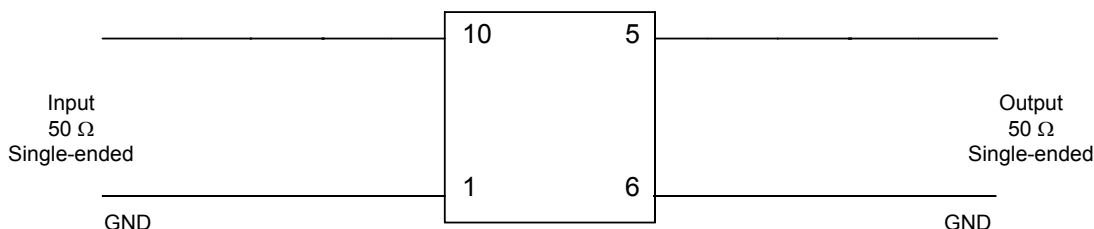
Parameter	Min	Typ	Max	Units
Center Frequency (Fc) ¹	-	44.0	-	MHz
Insertion Loss ²	-	25	25.5	dB
Lower 1dB Band Edge	-	40.18	40.24	MHz
Upper 1 dB band Edge	47.76	47.84	-	MHz
3 dB Bandwidth	8.08	8.09	-	MHz
Lower 38 dB Band Edge	38.94	39.07	-	MHz
Upper 38 dB Band Edge	-	48.99	49.06	MHz
Passband Amplitude Ripple ³	-	0.4	0.5	dB p-p
Passband Group Delay Ripple ⁴	-	40	75	ns p-p
Rejection (10 to 36.84 MHz)	46	45	-	dB
Rejection (36.84 to 38.94 MHz)	39	42	-	dB
Rejection (49.06 to 51.16 MHz)	39	42	-	dB
Rejection (51.16 to 80 MHz)	41	45	-	dB
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 40.39 to 47.25 MHz.
 4. Measured over 40.24 to 47.76 MHz.

MAXIMUM RATINGS

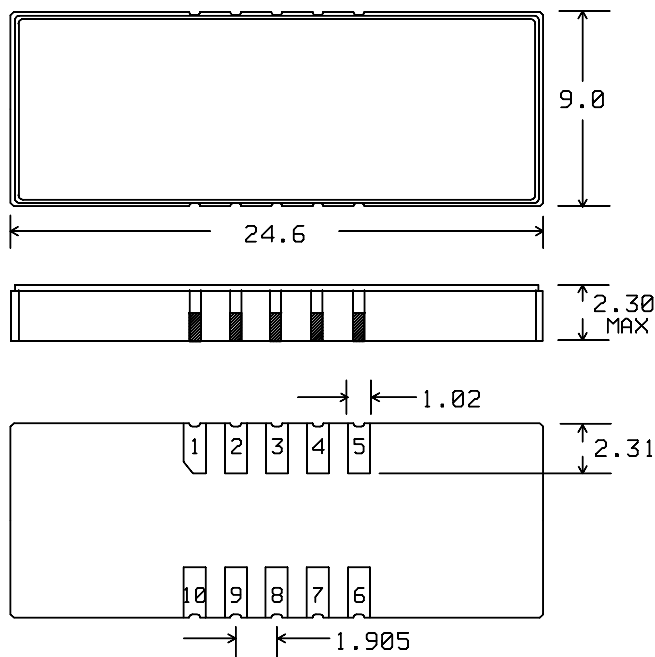
Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating Temperature Range	20	30	°C
Input Power Level		10	dBm

MATCHING CIRCUIT



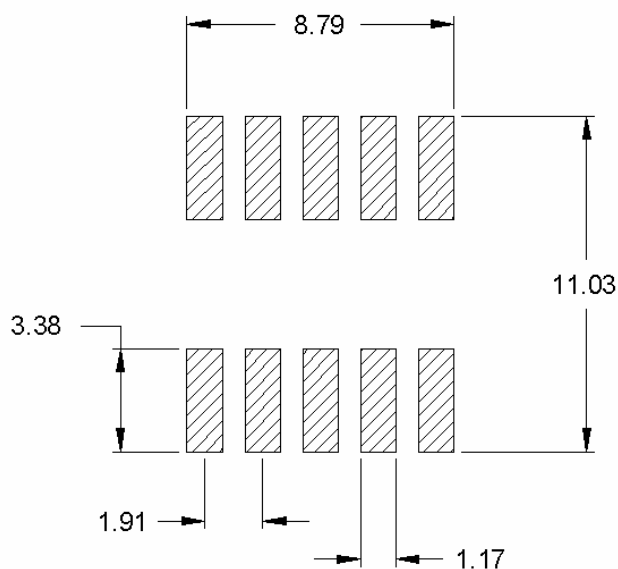
Note: External matching components are not required.

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:	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.
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Spectrum Microwave
400 Nickerson Road, Marlborough, MA 01752, USA • Phone 1-508-251-6400 • Fax 1-508-251-6401
www.SpectrumMicrowave.com

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