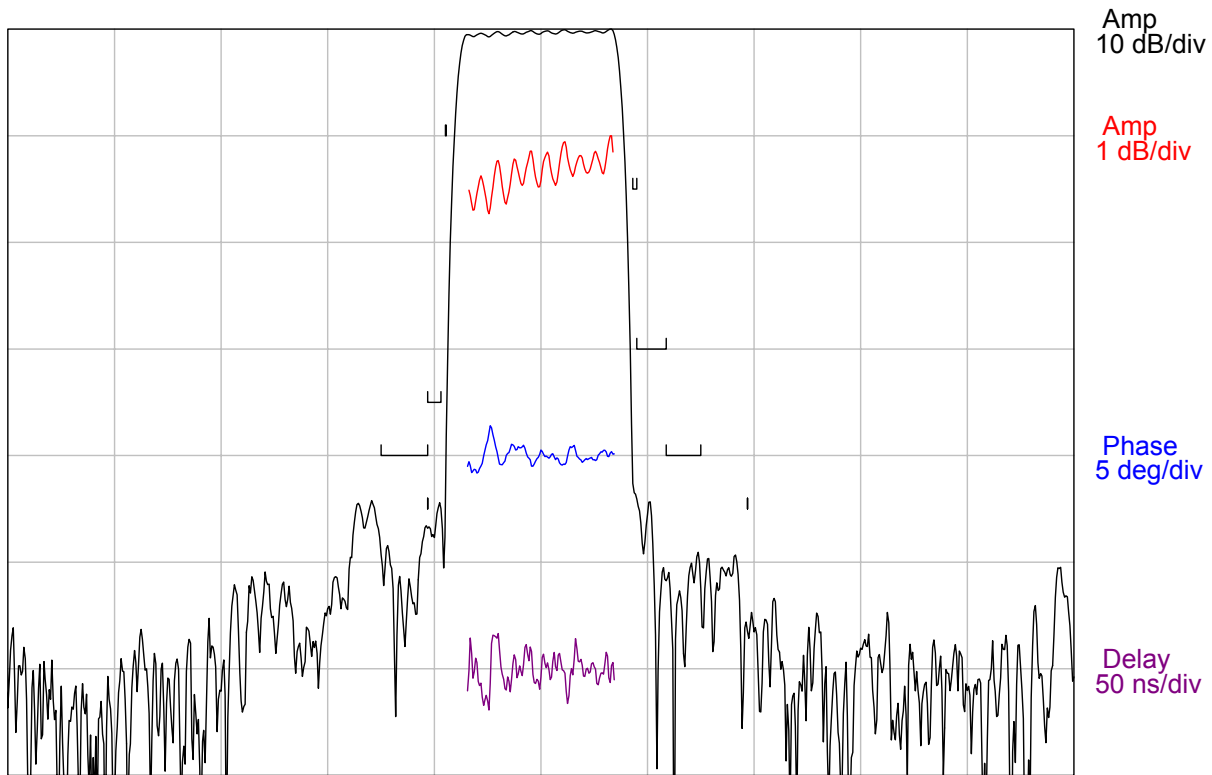


DESCRIPTION

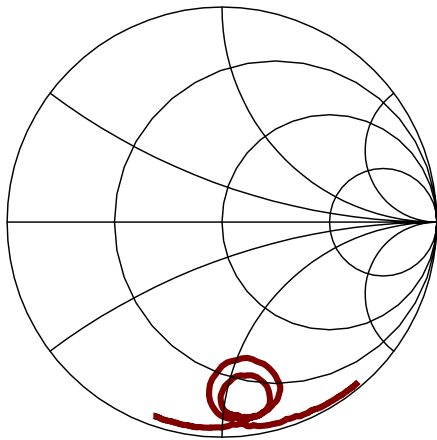
- 44 MHz SAW bandpass filter with 5.4 MHz bandwidth for digital RF signal processing.
- 24.6 x 9 mm 10 pad ceramic LCC.
- RoHS compliant.

TYPICAL PERFORMANCE

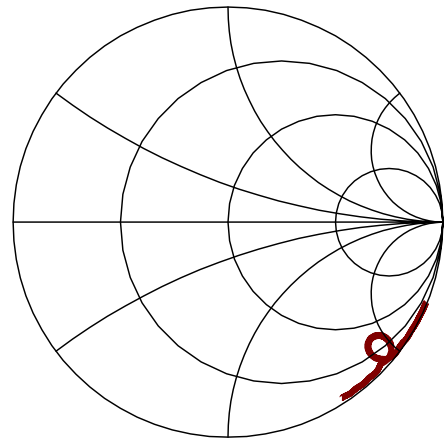


Center = 44 MHz, 4 MHz/div (50 kHz incr)

S11 (24-64 MHz)



S22 (24-64 MHz)



SPECIFICATION

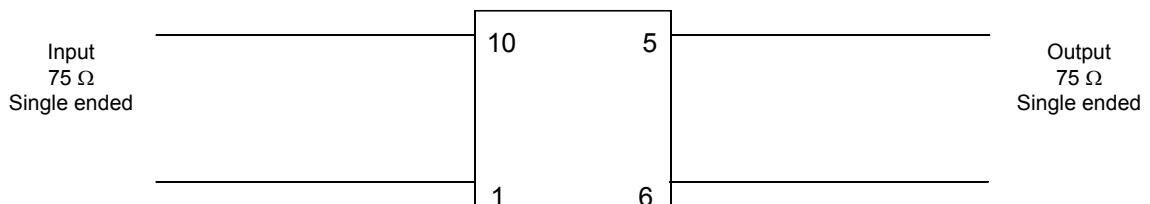
Parameter	Min	Typ	Max	Units
Center Frequency, F_c ¹	-	44	-	MHz
Insertion Loss at F_c	-	22.4	25	dB
Passband Ripple (41.3 to 46.7 MHz)	-	0.7	1	dB p-v
Response at 41.25 and 46.75 MHz	-	1	1.5	dB
Group Delay Variation ^{2,3}	-	35	45	ns p-v
Absolute Delay	-	2.35	-	us
Attenuation at 38 MHz ²	40	46	-	dB
Attenuation at 39.75 MHz ²	45	47	-	dB
Attenuation at 40.25 MHz ²	35	44	-	dB
Attenuation at 40.45 MHz ²	10	38	-	dB
Attenuation at 47.45 MHz ²	15	42	-	dB
Attenuation at 47.6 MHz ²	30	44	-	dB
Attenuation at 48.7 MHz ²	40	48	-	dB
Attenuation at 50.0 MHz ²	40	48	-	dB
Attenuation at 51.75 MHz ²	45	55	-	dB
Rejection (20 to 38 MHz) ²	35	44	-	dB
Rejection (52 to 70 MHz) ²	35	48	-	dB
Source and Load Impedance	75			ohms
Temperature Coefficient of Frequency	-86			ppm/°C
Ambient Temperature	-	25	-	°C

- Notes:
1. Reference frequency. Computed as mean of the 3 dB frequencies.
 2. All dB values are referenced to the insertion loss value.
 3. A 2% smoothing factor (100 KHz) from 41.3 to 46.7 MHz shall be allowed.

MAXIMUM RATINGS

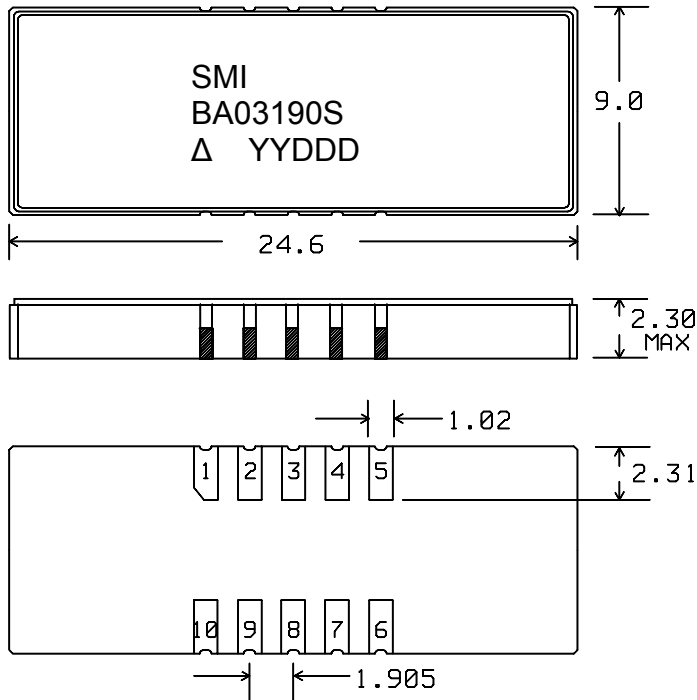
Parameter	Min	Max	Units
Storage Temperature Range	-40	85	°C
Operating temperature Range	15	65	°C
Input Power Level	-	13	dBm

MATCHING CIRCUIT



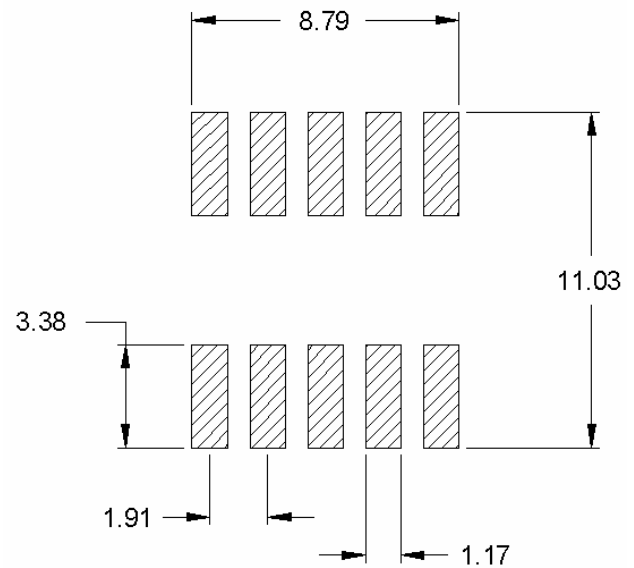
Note: External matching components are not required.

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.

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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