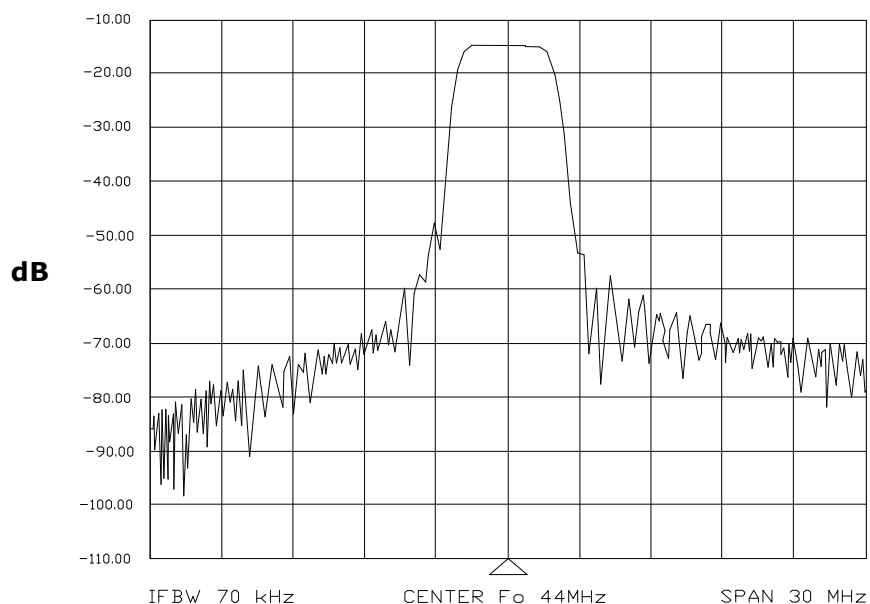
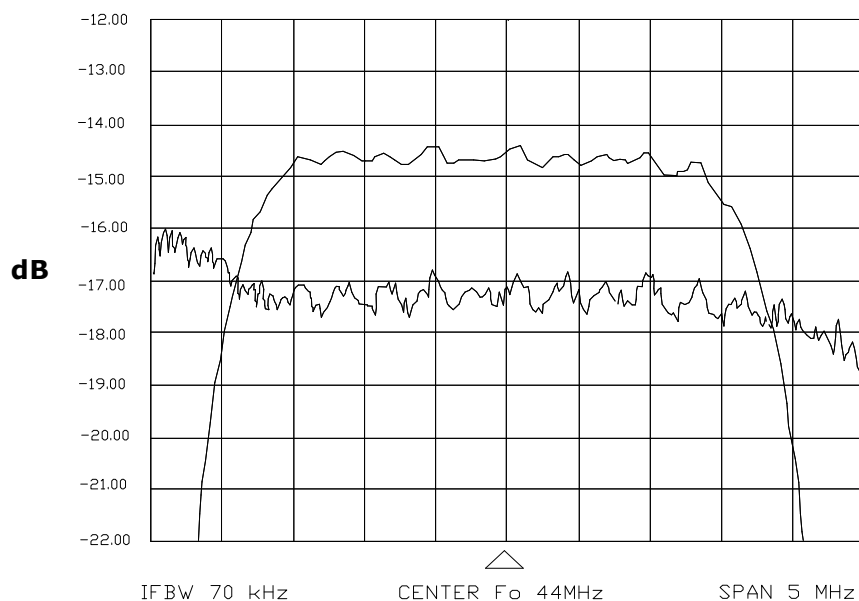


DESCRIPTION

- 44 MHz SAW bandpass filter with 3.4 MHz bandwidth.
- 13.3 x 6.5 mm ceramic LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE



SPECIFICATION

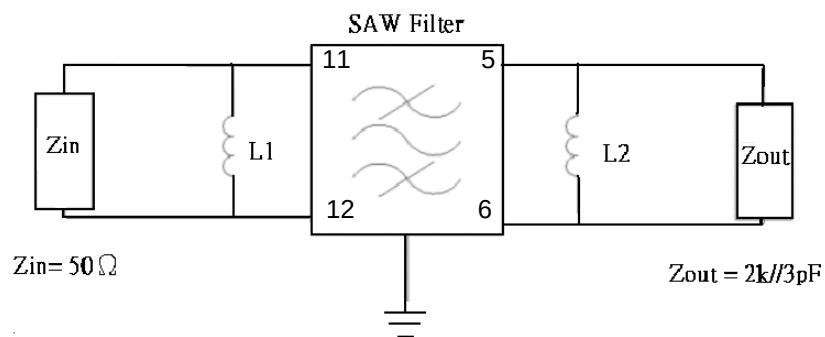
Parameter	Min	Typ	Max	Units
Center Frequency, F_c ¹	-	44	-	MHz
Minimum Insertion Loss ²	-	14	16	dB
Passband Ripple ($F_c \pm 1.25$ MHz)	-	0.6	1	dB p-p
Absolute Delay	-	1.7	-	us
3 dB bandwidth ²	3.4	3.8	-	MHz
Relative Attenuation ($F_c \pm 1.85$ MHz) ²	1.9	2.5	-	dB
Relative Attenuation ($F_c \pm 2$ MHz) ²	3	4.2	-	dB
Relative Attenuation ($F_c \pm 3.5$ MHz) ²	38	42	-	dB
Relative Attenuation (26.5 to 40.5 MHz) ²	40	47	-	dB
Relative Attenuation (47.5 to 61.5 MHz) ²	38	41	-	dB
Source and Load Impedance	50ohm, 2k ohm//3pF			
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.

MAXIMUM RATINGS

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

MATCHING CIRCUIT

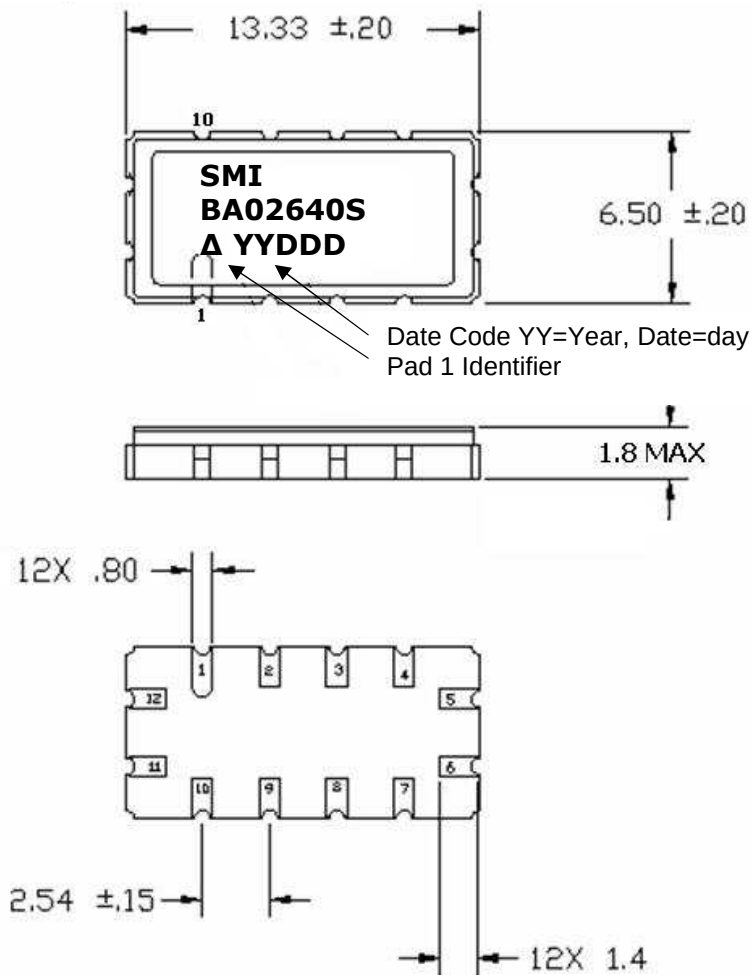


Notes:

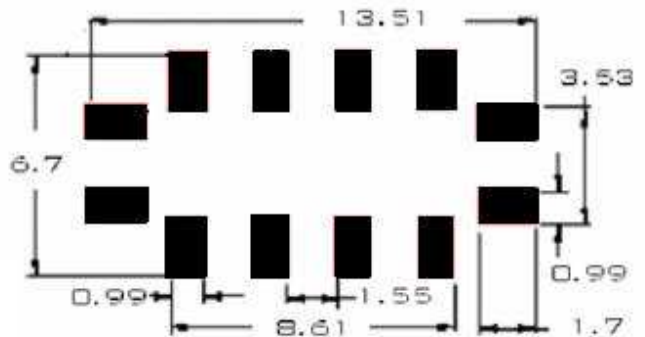
$L1=220nH$, $L2=510nH$

- Recommend 2% or better tolerance matching components. Typical inductor Q=40.
- Optimum values may change depending on board layout. Values shown are intended as a guide only.

PACKAGE OUTLINE



SUGGESTED FOOTPRINT



Units: mm

Tolerances are typically ± 0.15 mm except where indicated.

Pad Configuration:

Balanced Input : 11, 12

Balanced Output : 5, 6

Ground: All other pads

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

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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DSSF0044BA02640S Rev X2 10-Feb-11
 Page 3 of 3