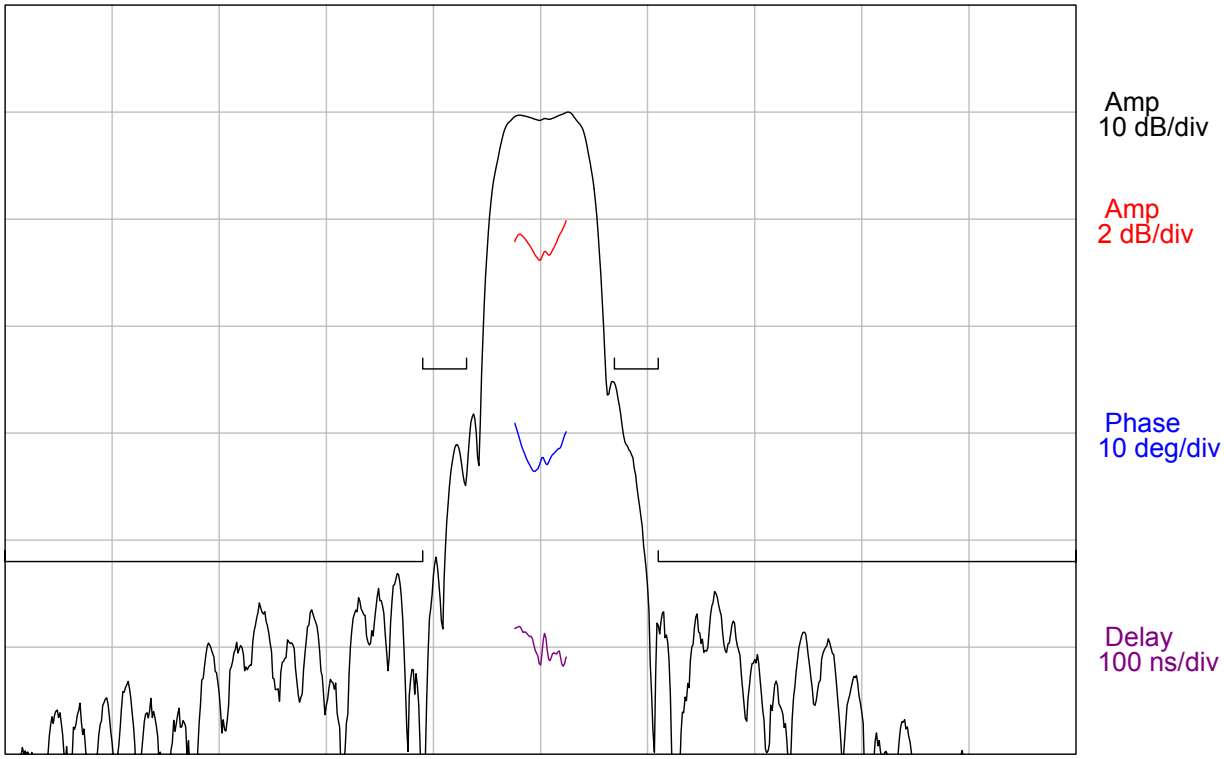
115.2 MHz SAW Filter
3.84 MHz Bandwidth
Part Number: SF0115BA03227S

DESCRIPTION

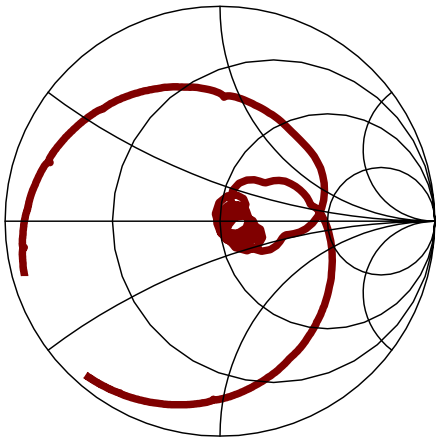
- 115.2 MHz SAW bandpass filter with 3.84 MHz bandwidth.
- 7 x 5 mm 10-pad LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE

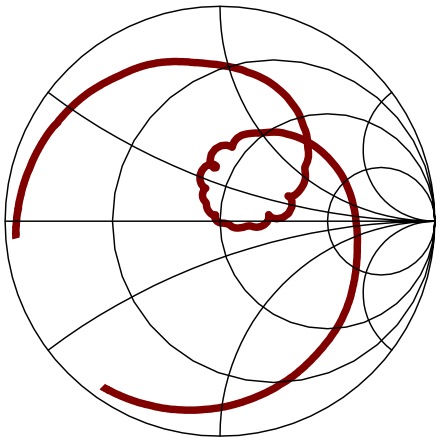


Center = 115.2 MHz, 5 MHz/div (62.5 kHz incr)

S11 (90.2-140.2 MHz)



S22 (90.2-140.2 MHz)



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SPECIFICATION

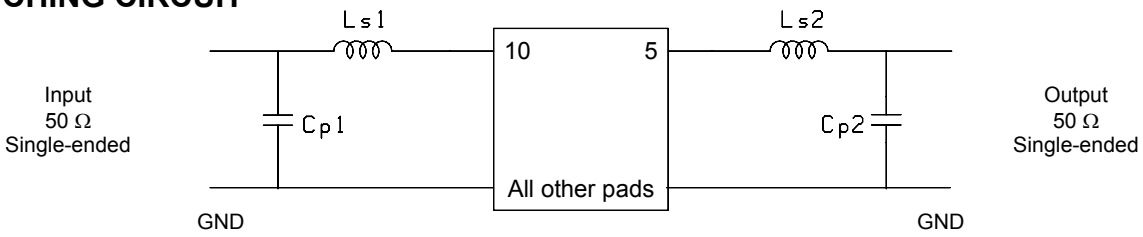
Parameter	Min	Typ	Max	Units
Center Frequency, F_C [1]	-	115.2	-	MHz
Minimum Insertion Loss	-	9.8	11	dB
Lower 1 dB Frequency [2]	-	113.7	114	MHz
Upper 1 dB Frequency [2]	116.4	116.9	-	MHz
1 dB Bandwidth [2]	2.4	3.2	-	MHz
3 dB Bandwidth [2]	3.84	4	-	MHz
24 dB Bandwidth [2]	-	5.8	6.9	MHz
Amplitude Variation (Fc+/-1.2 MHz)	-	0.7	1	dB p-p
Phase Linearity (Fc+/-1.2 MHz)	-	4.5	8	deg p-p
Group Delay Variation (Fc+/-1.2 MHz)	-	30	60	ns
Absolute Delay	0.75	0.83	1.05	us
Relative Attenuation (10-109.7 MHz)	42	44	-	dB
Relative Attenuation (109.7-111.75 MHz)	24	30	-	dB
Relative Attenuation (118.65-120.7 MHz)	24	26	-	dB
Relative Attenuation (120.7-500 MHz)	42	44	-	dB
Input Return Loss (Fc+/-1.2 MHz)	10	13	-	dB
Output Return Loss (Fc+/-1.2 MHz)	10	13	-	dB
Source/Load Impedance		50		ohms
Material Coefficient of Frequency		-18		ppm/ºC
Ambient Temperature		25		˚C

Notes: 1. Defined as the average of the lower and upper 3 dB frequencies at room ambient.
2. All dB levels are defined relative to the insertion loss.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	125	˚C
Operating Temperature Range	-20	70	˚C
Input Power Level	-	13	dBm

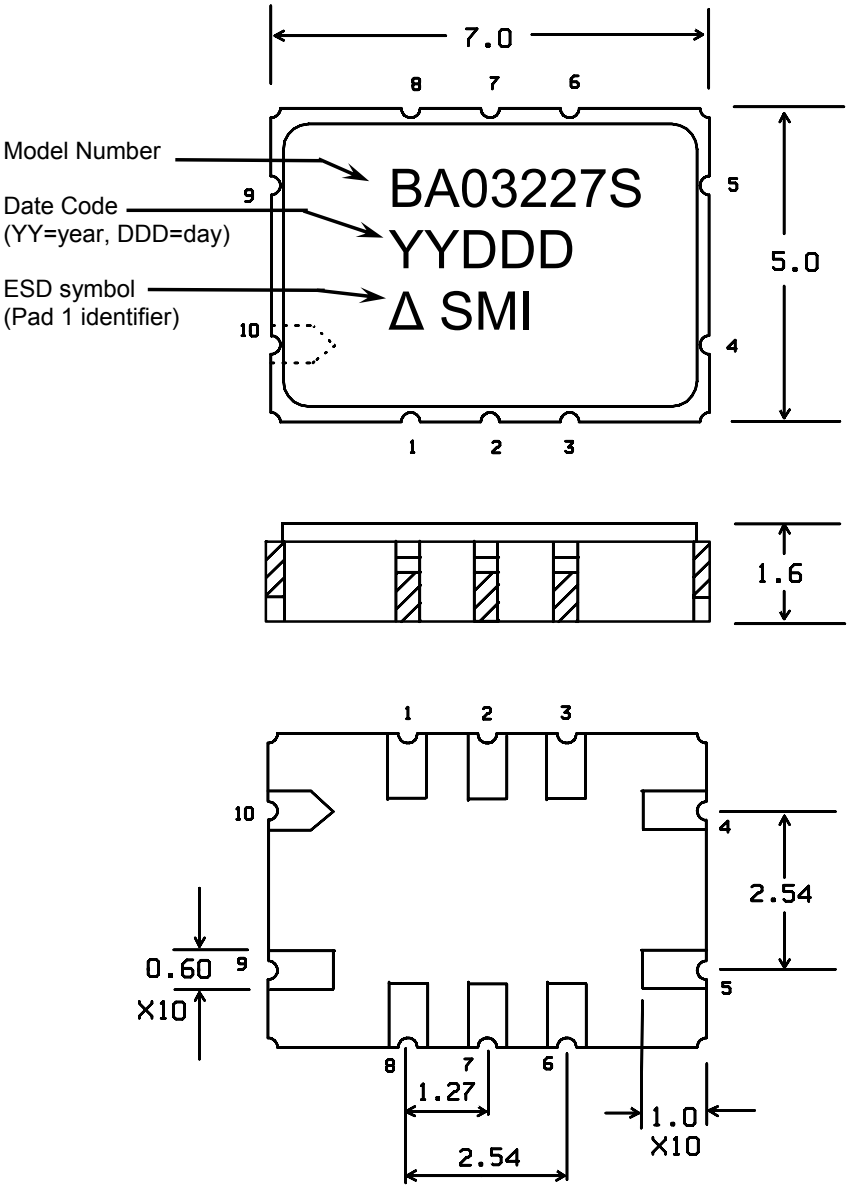
MATCHING CIRCUIT



Ls1 = 148 nH Ls2 = 105 nH
Cp1 = 47 pF Cp2 = 47 pF

Notes:
- Recommend 2% toleranced components. Typical Inductor Q=40.
- Values shown are for reference only and depend upon board layout.

PACKAGE OUTLINE



Units: mm

Tolerances are typically ±0.15 mm except where indicated.

Pad Configuration:

Input:	10
Input return:	9
Output:	5
Output return:	4
Ground:	All other pads

Package Material:
Body: Al_2O_3 ceramic
Lid: *Kovar, Ni* plated
Terminations: *Au* plating 1 µm min, over a 1.3-8.9 µm *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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