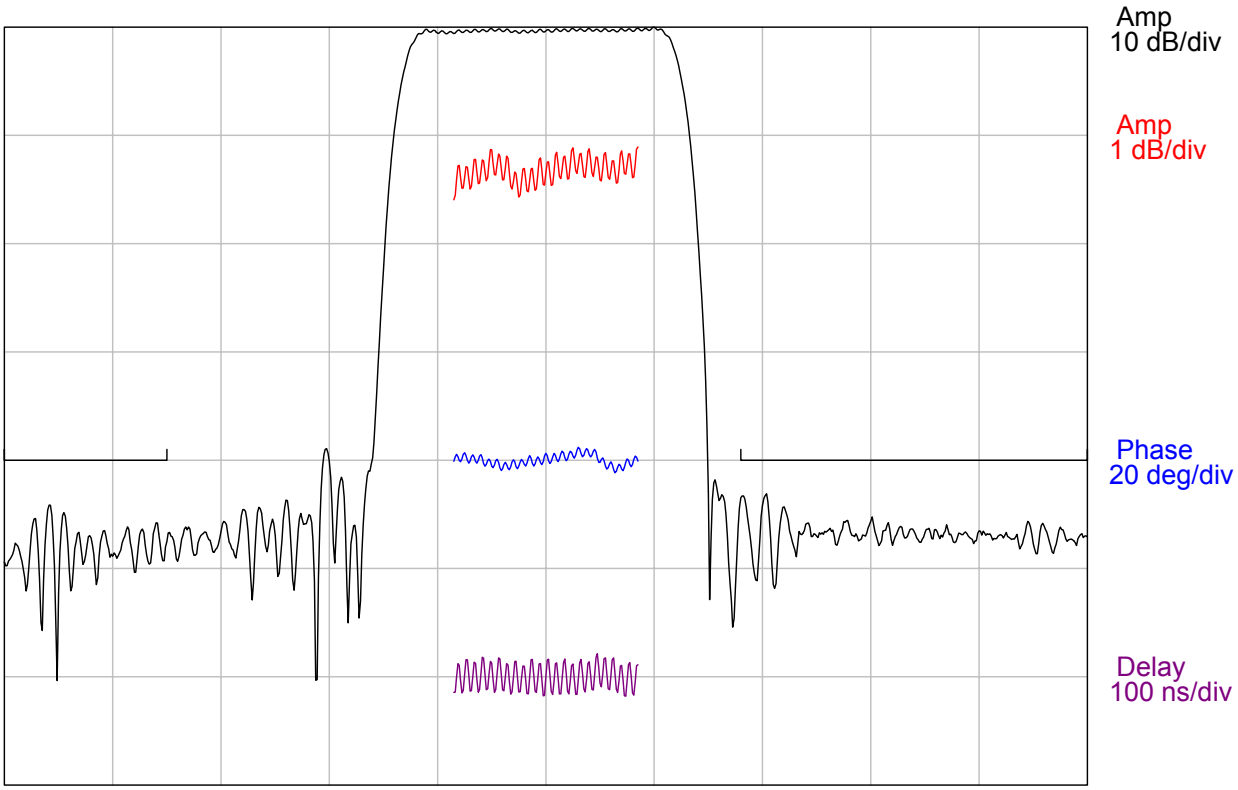
570 MHz SAW Filter
17 MHz Bandwidth
Part Number: SF0570BA03233S

DESCRIPTION

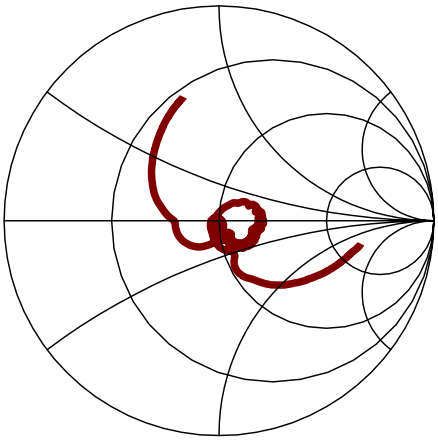
- 570 MHz SAW bandpass filter with 17 MHz bandwidth.
- 7 x 5 mm 10-pad LCC package.
- RoHS compliant.

TYPICAL PERFORMANCE

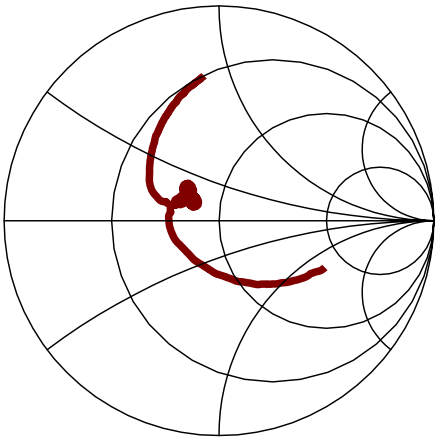


Center = 570 MHz, 10 MHz/div (125 kHz incr)

S11 (520-620 MHz)



S22 (520-620 MHz)



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SPECIFICATION

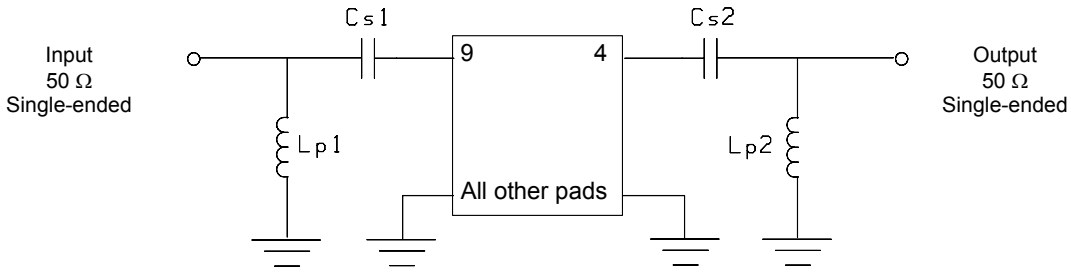
Parameter	Min	Typ	Max	Units
Center Frequency (F_C) [3]	-	570	-	MHz
Minimum Insertion Loss	-	18.7	20	dB
Lower 1 dB Frequency [1]	-	557.9	561.5	MHz
Upper 1 dB Frequency [1]	578.5	581.4	-	MHz
1 dB Bandwidth [1]	17	23.4	-	MHz
3 dB Bandwidth [1]	-	24.9	-	MHz
In-band Amplitude Ripple	-	0.5	1	dB p-p
In-band Group Delay Ripple	-	45	80	ns p-p
Relative Attenuation (20 to 535 MHz) [1]	40	43	-	dB
Relative Attenuation (588 to 1000 MHz) [1]	40	43	-	dB
Input Return Loss (Fc+/-7.5 MHz)	-	12	-	dB
Output Return Loss (Fc+/-7.5 MHz)	-	12	-	dB
Temperature Coefficient of Frequency (Tc) [2]	-18			ppm/˚C
Source/Load Impedance	50			ohms
Ambient Temperature (Tref)	25			˚C

Notes:
1. All dB levels are referenced to the insertion loss value.
2. Typical shift of frequency response with temperature is: Δf=(T-Tref)*Tc*Fc.
3. Defined as the mean of the lower and upper 3 dB frequency values.

MAXIMUM RATINGS

Parameter	Min	Max	Units
Storage Temperature Range	-40	85	˚C
Operating Temperature Range	-20	60	˚C
Input Power Level	-	10	dBm

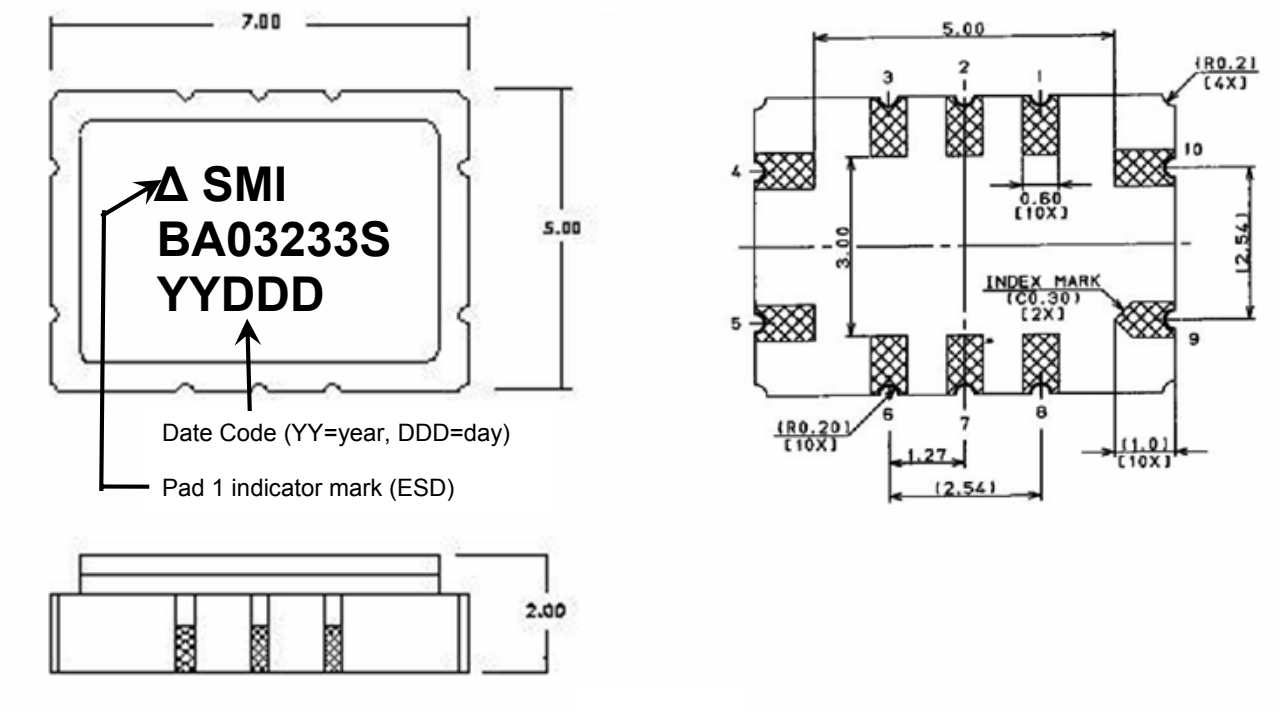
MATCHING CIRCUIT



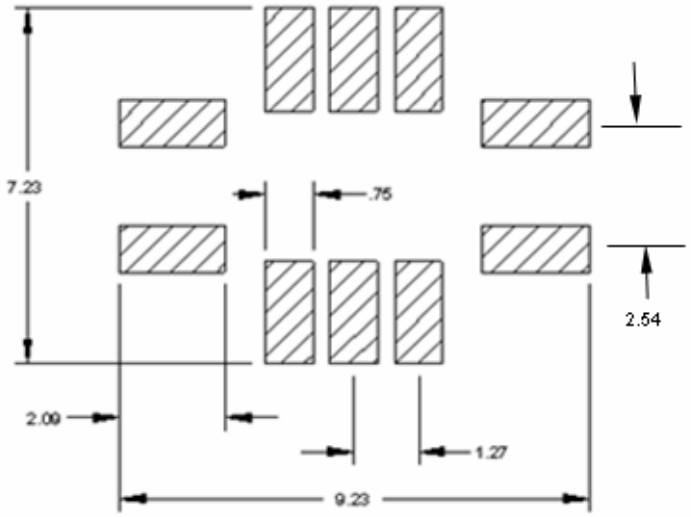
Cs1 = 14 pF Lp1 = 5 nH
Cs2 = 12 pF Lp2 = 5 nH

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

PACKAGE OUTLINE



SUGGESTED FOOTPRINT



Units: mm

Tolerances are typically ±0.15 mm except where indicated.

Pad Configuration:

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

ISO 9001
Registered