SA868AP

Remote Control, RF SAW Filter
Revision 0: March 2004

RoHS compliance
Pb free

- ❒ Electrical Characteristics
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❒ Electrical Characteristics

Maximum Ratings

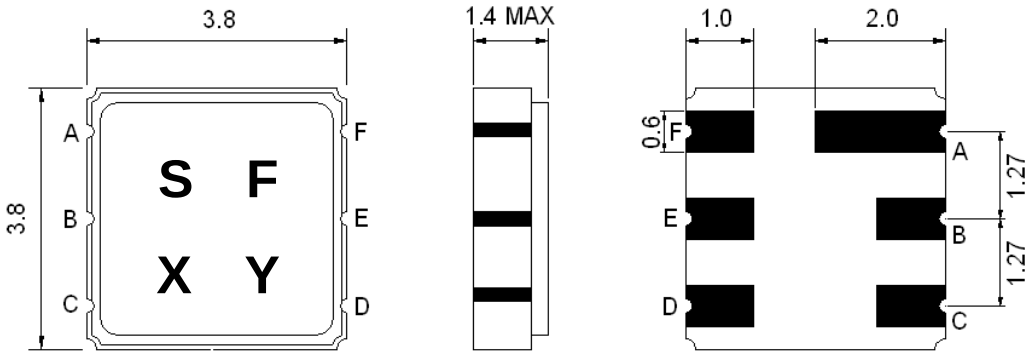
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-45	-	+90
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	0
Source Impedance (single ended)(1)	Ω//pF	-	117//3.7	-
Load Impedance (single ended)(1)	Ω//pF	-	117//3.7	-
Package type & size	P			
Length x Width	mm^2	-	3.8 x 3.8	-
Height	mm	-	-	1.4

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	868.3	-
Insertion Loss within 868 ~ 868.78 MHz	dB	-	2.7	4.2
Relative Passband :				
868 ~ 868.78 MHz	dB	-	1.0	3.0
867.9 ~ 868.88 MHz	dB	-	1.5	6.0
3dB Bandwidth	KHz	-	1500	-
Attenuation				
10 ~ 700 MHz	dB	50	55	-
700 ~ 830 MHz	dB	40	45	-
830 ~ 850 MHz	dB	35	40	-
850 ~ 865.02 MHz	dB	25	28	-
871 ~ 874.5 MHz	dB	15	20	-
874.5 ~ 883 MHz	dB	22	26	-
883 ~ 900 MHz	dB	30	35	-
900 ~ 1000 MHz	dB	40	45	-

Notes : (1) With Matching Network .

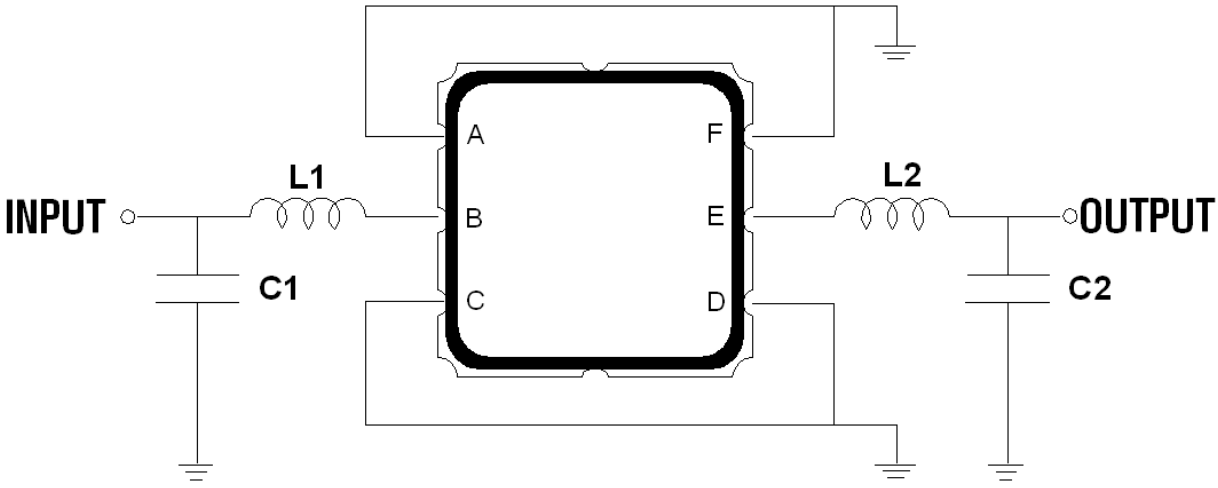
❒ Package Dimensions



Marking Descriptions	
S	TCRF Application
F	Series Number
X	Date Code(Year)
Y	Date Code(Month)

Pin Description	
A, C, D, F	Ground
B	In
E	Out

❒ Testing Environment



L1 = 15mH, C1 = 3.3pF, L2 = 15nH, C2 = 3.3pF

Source & Load Impedance: 50 Ω

❒ Frequency Characteristics

Frequency Response