



Total Solution Provider in Saw Device

SA1090AP1

Wireless, Balanced RF SAW Filter
Revision 0: March 2003



- Electrical Characteristics
 - Package Dimensions
 - Testing Environment
 - Frequency Characteristics
-

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Electrical Characteristics

Maximum Ratings

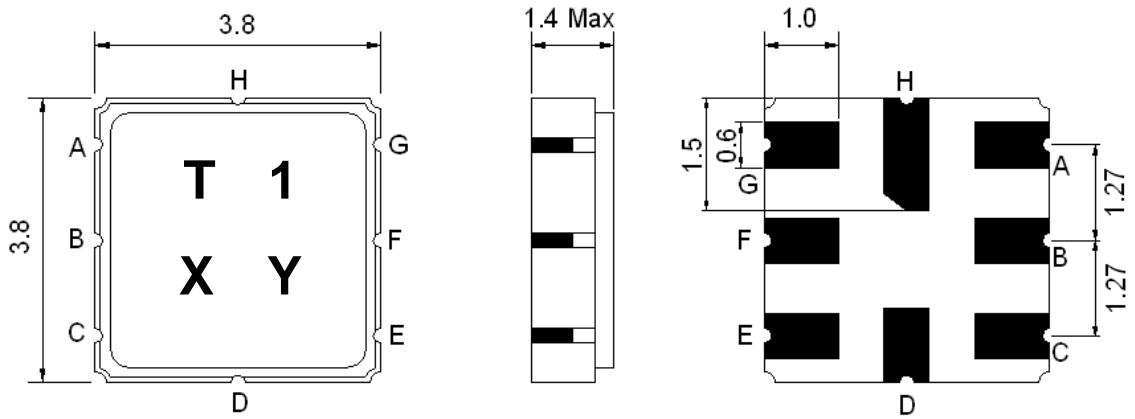
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	0	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	0
Source Impedance (Balanced ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (Balanced ended) ⁽¹⁾	Ω	-	50	-
Package type&size	P1			
Length x Width	mm ²	-	3.8 x3.8	-
Height	mm	-	-	1.4

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1090.0	-
Insertion Loss within 1084~1096MHz	dB	-	3.9	5.3
Amplitude Ripple within 1084~1096MHz	dB _{p-p}	-	0.6	1.5
Attenuation:				
500 ~ 924 MHz	dB	45	48	-
924 ~ 944 MHz	dB	45	50	-
944 ~ 1051 MHz	dB	40	47	-
1051 ~ 1061 MHz	dB	30	36	-
1170 ~ 2000 MHz	dB	40	43	-

Notes : (1) With Matching Network

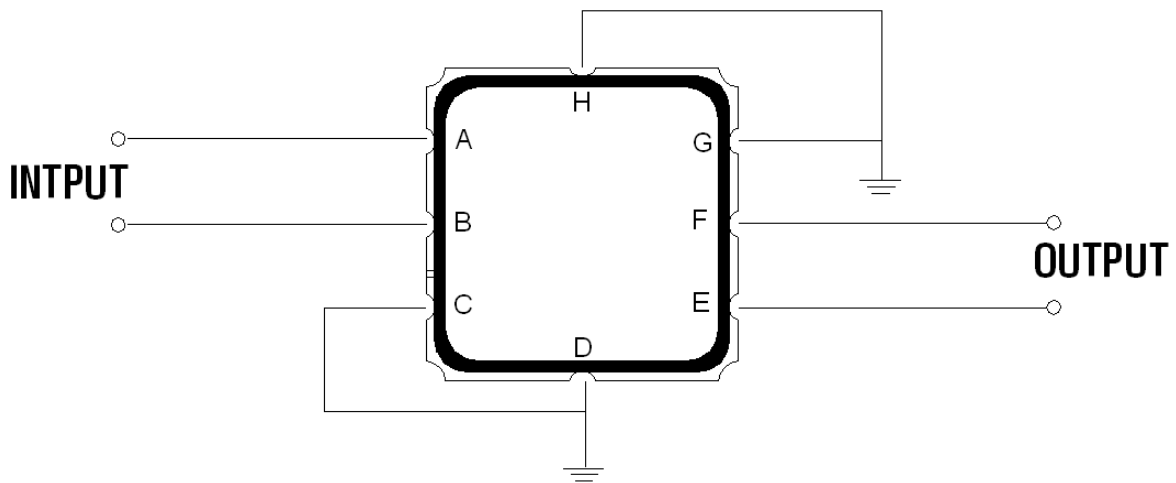
□ Package Dimensions



Marking Descriptions	
T	CA-TV Application
1	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

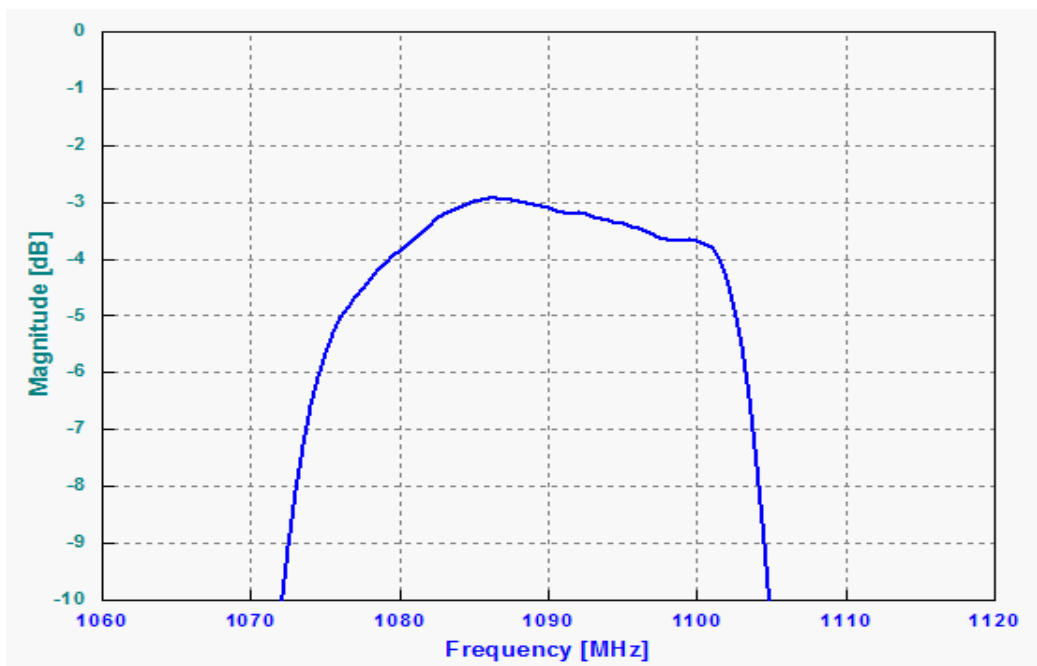
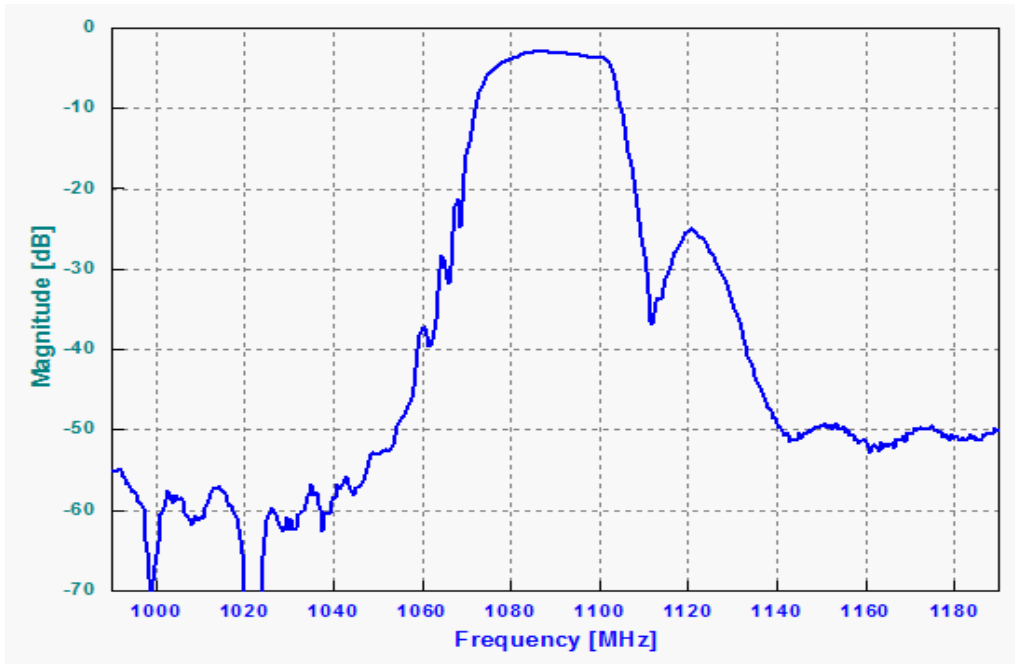
□ Testing Environment



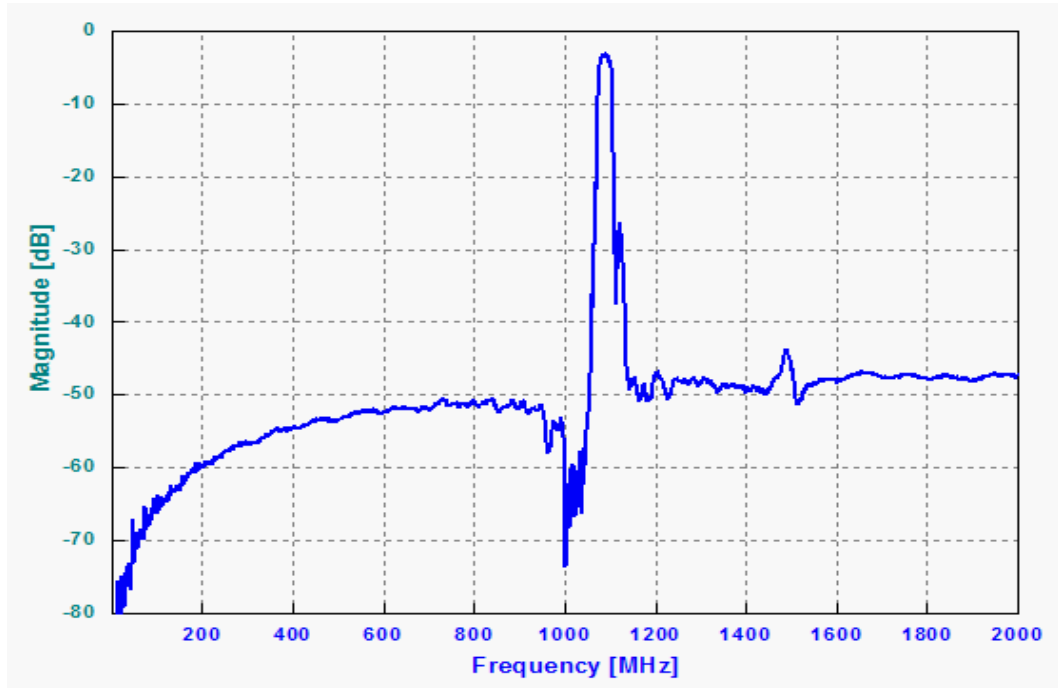
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



Wide Band



Smith Chart

