



Total Solution Provider in Saw Device

SA1090CM

Wireless, RF SAW Filter
Revision 0: May 2009



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

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□ Electrical Characteristics

Maximum Ratings

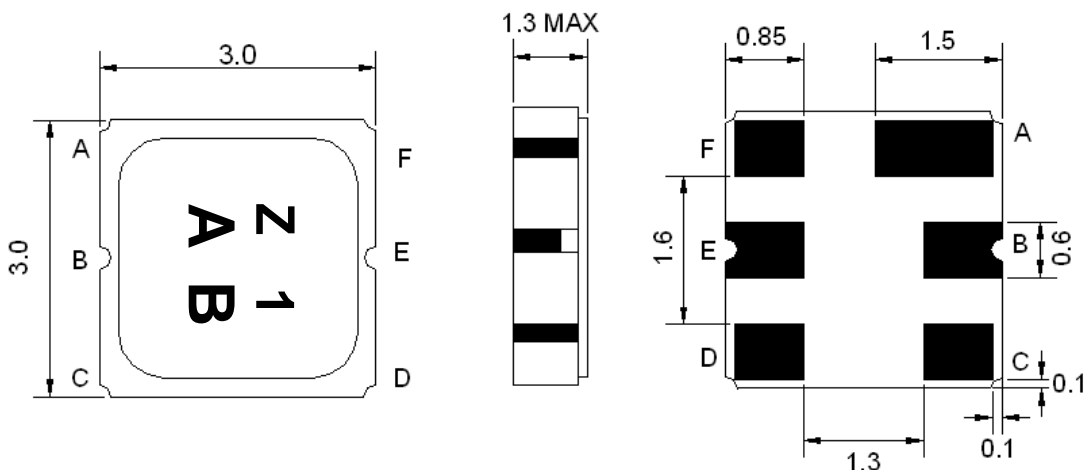
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+75
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
Length x Width	mm ²	-	3.0 x 3.0	-
Height	mm	-	-	1.3

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1090.0	-
Insertion Loss within 1080.0 ~ 1100.0 MHz	dB	-	0.9	2.0
Amplitude Ripple within 1080.0 ~ 1100.0 MHz	dB _{p-p}	-	0.3	1.0
Attenuation:				
D.C. ~ 500.0 MHz	dB	17	20	-
500.0 ~ 1040.0 MHz	dB	14	17	-
1140.0~ 1150.0 MHz	dB	20	27	-
1150.0 ~ 1400.0 MHz	dB	15	18	-
VSWR within 1080.0 ~ 1100.0 MHz	-	-	1.75	2.2

Notes : No Matching Network (Ref. Testing Environment Circuit as shown below).

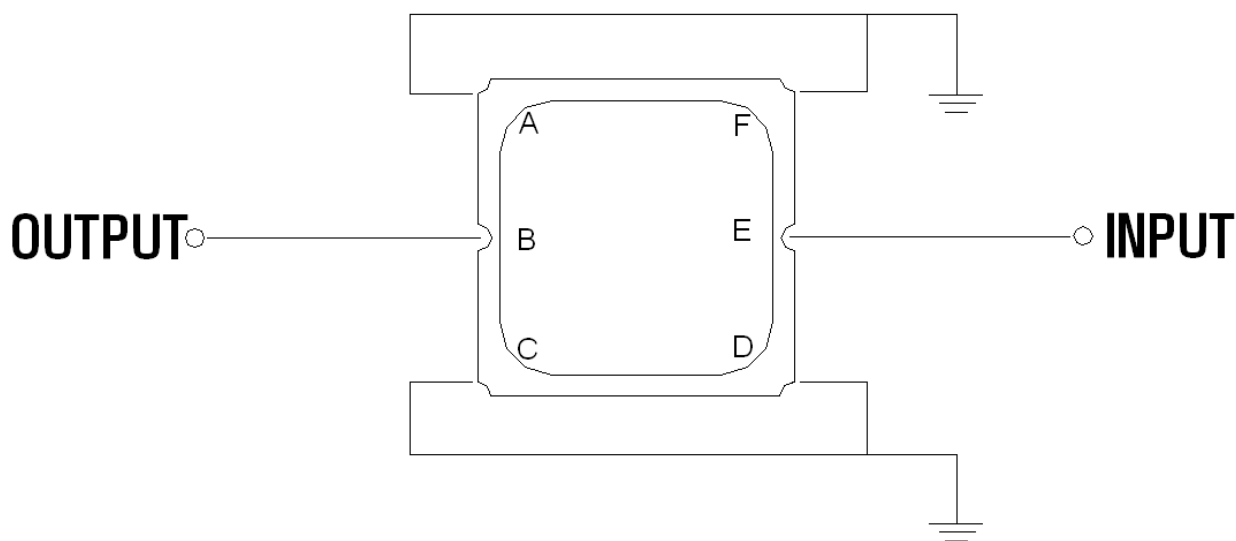
□ Package Dimensions



Marking Descriptions	
Z	Wireless Application
1	Series Number
A	Date Code(Year)
B	Date Code(Month)

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

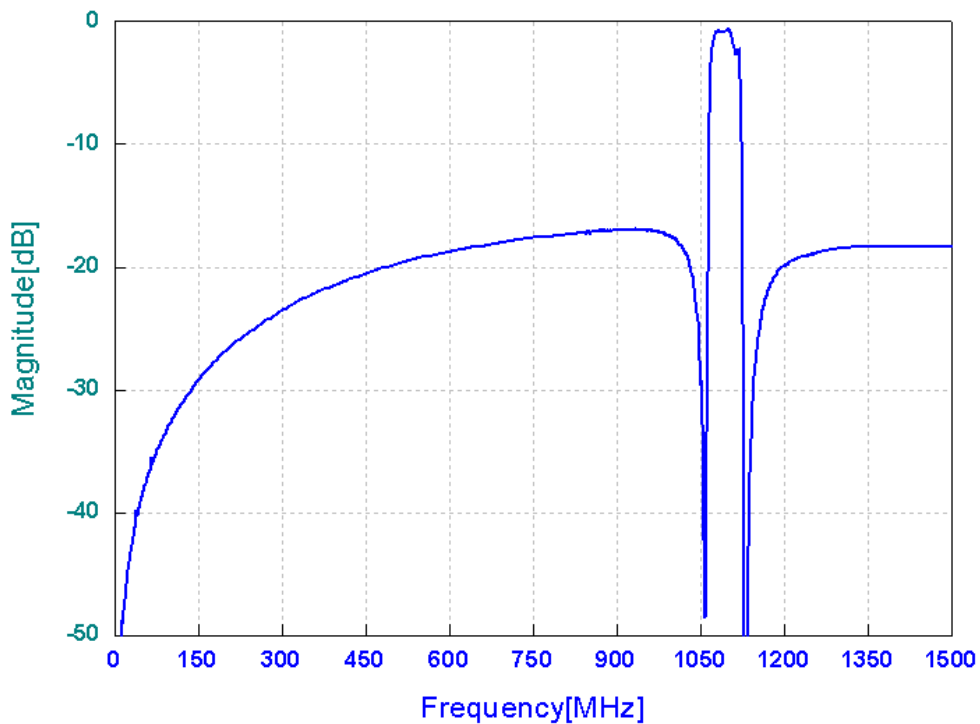
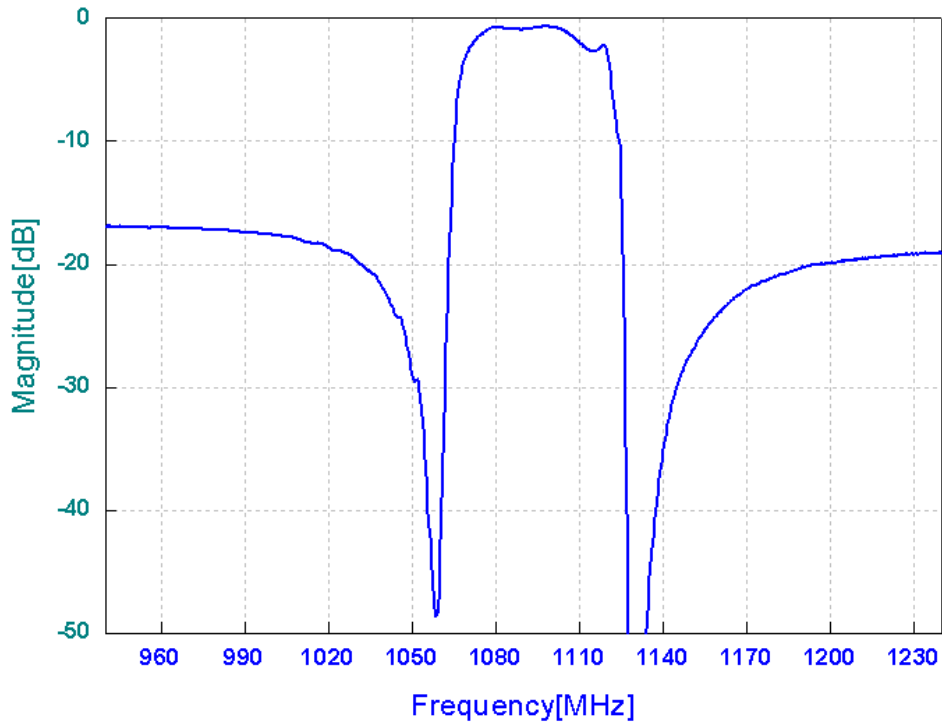
□ Testing Environment



Source & Load Impedance: 50 Ω

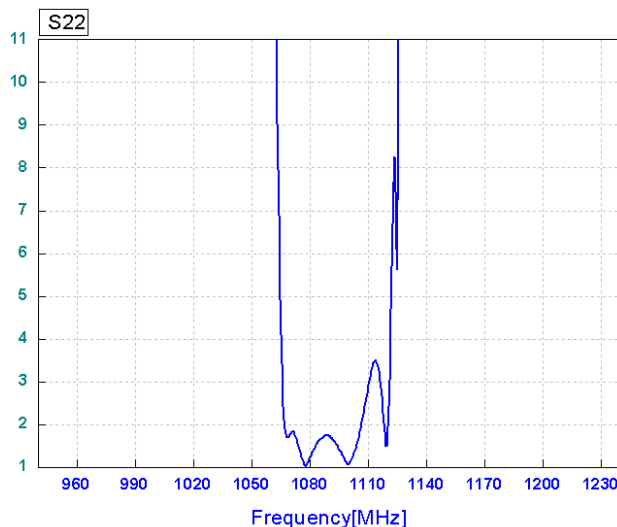
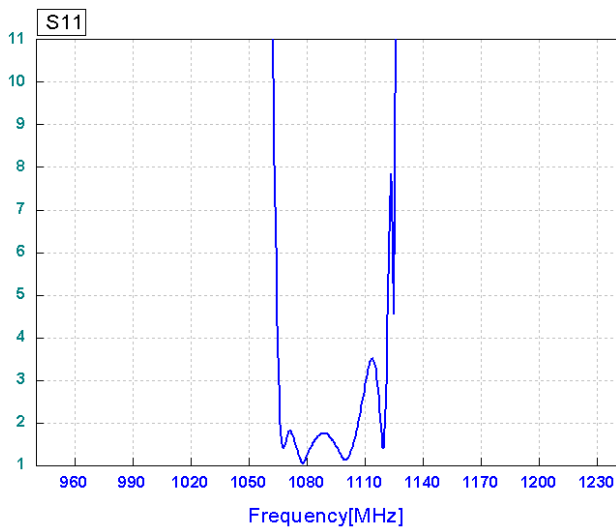
□ Frequency Characteristics

Frequency Response





VSWR



Smith Chart

