



Total Solution Provider in Saw Device

SA1170AM

Wireless, RF SAW Filter
Revision 0: May 2009



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

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□ Electrical Characteristics

Maximum Ratings

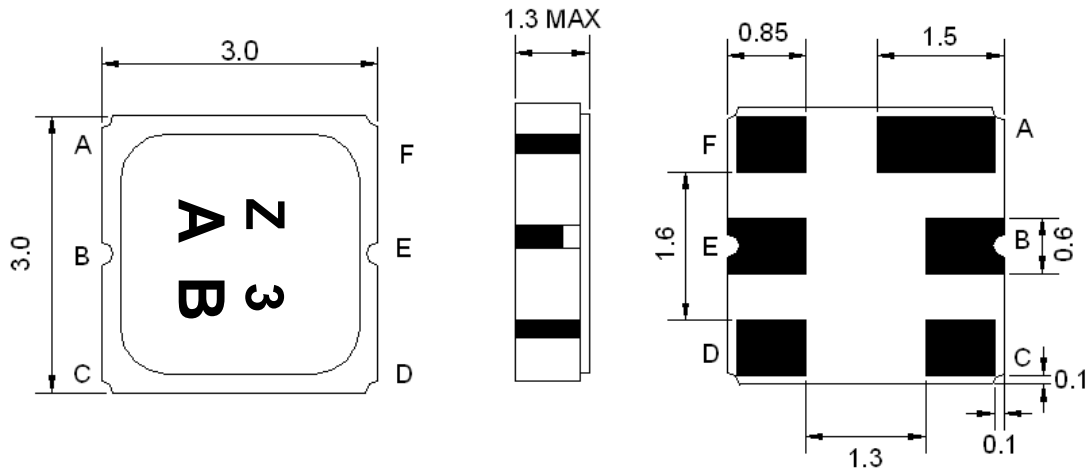
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+75
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	1170.0	-
Insertion Loss within 1160.0 ~ 1180.0 MHz	dB	-	0.7	2.0
Amplitude Ripple within 1160.0 ~ 1180.0 MHz	dB _{p-p}	-	0.15	1.0
Attenuation:				
D.C. ~ 500.0 MHz	dB	17	20	-
500.0 ~ 1120.0 MHz	dB	15	17	-
1220.0~ 1230.0 MHz	dB	20	27	-
1230.0 ~ 1400.0 MHz	dB	15	19	-
VSWR within 1160.0 ~ 1180.0 MHz	-	-	1.6	2.0

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

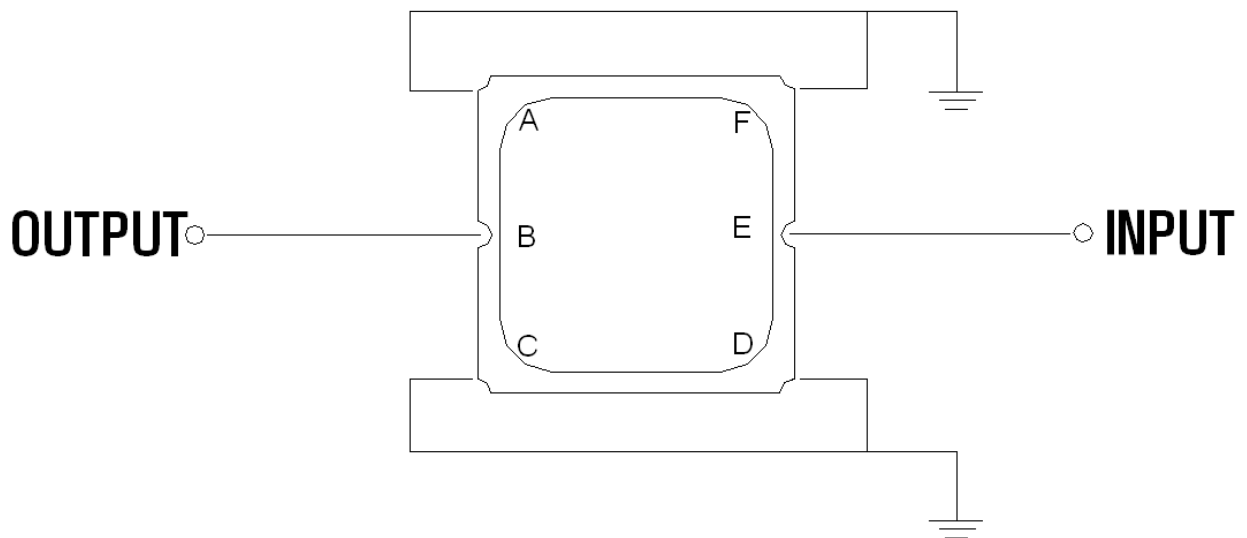
Package Dimensions



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

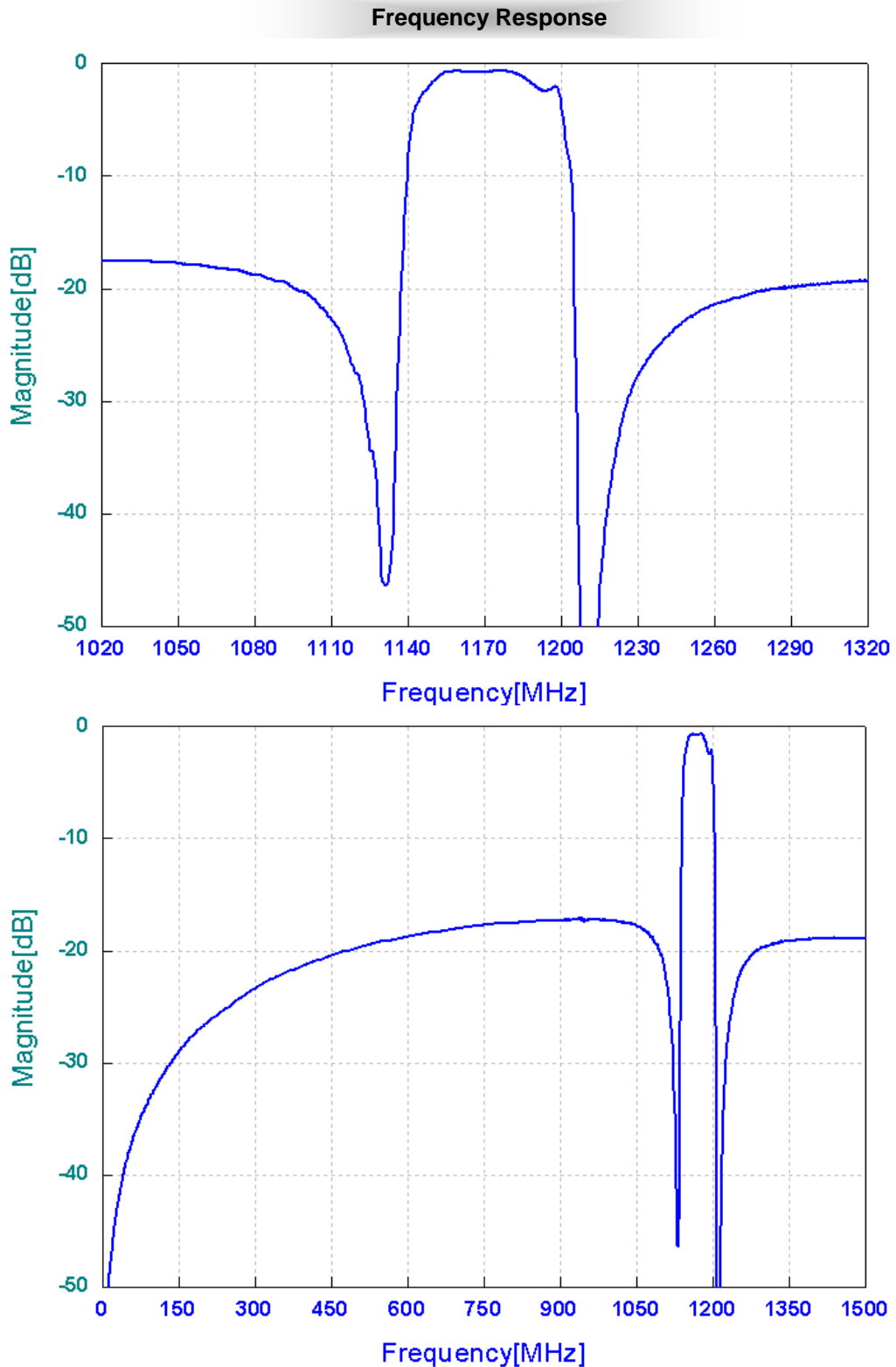
Pin Description	
A, C, D, F	Ground
B	In or Out
E	Out or In

Testing Environment



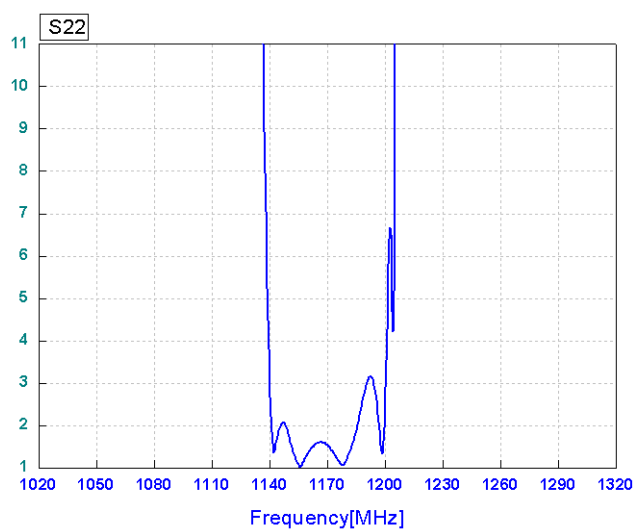
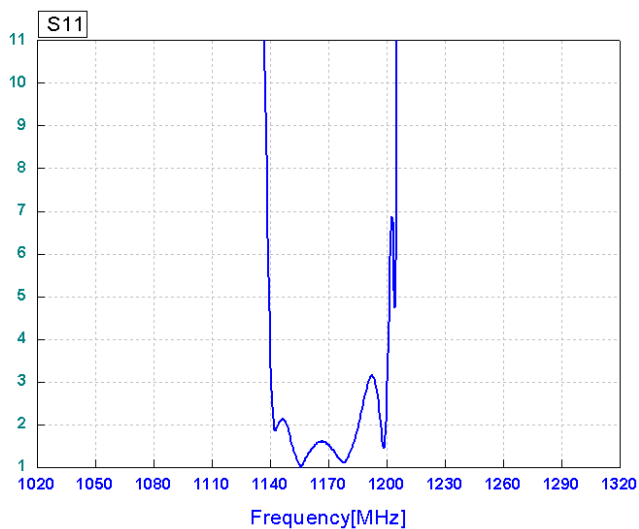
Source & Load Impedance: 50 Ω

□ Frequency Characteristics





VSWR



Smith Chart

