SA2160JM

Wireless, RF SAW Filter
Revision 0: July 2009

RoHS compliance
Pb free

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

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❒ Electrical Characteristics

Maximum Ratings

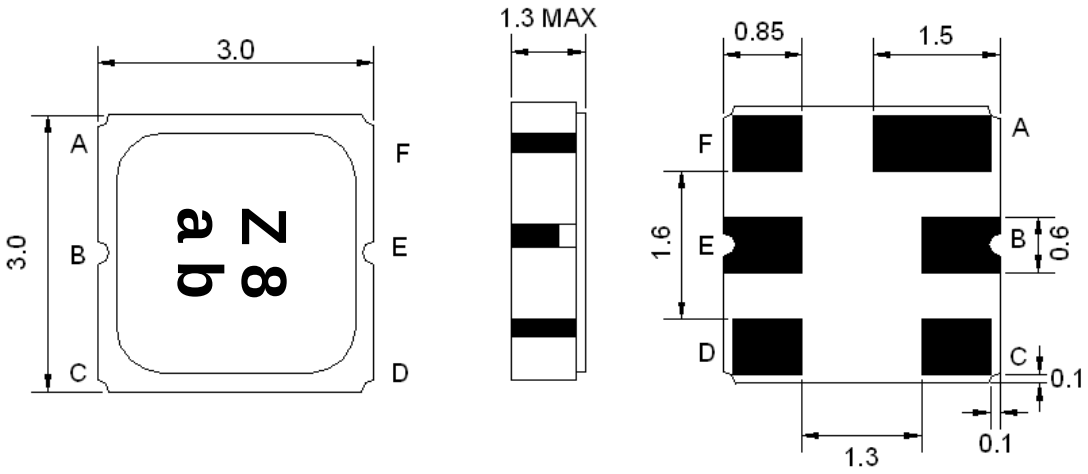
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	M			
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	-	2160.0	-
Insertion Loss within 2150.0~2170.0MHz	dB	-	2.0	3.5
Amplitude Ripple within 2150.0 ~ 2170.0 MHz	dB_{p-p}	-	0.2	2.0
Attenuation:				
D.C. ~ 500.0 MHz	dB	21	39	-
500.0 ~ 1900.0 MHz	dB	20	35	-
1900.0 ~ 2050.0 MHz	dB	25	38	-
2050.0 ~2090.0 MHz	dB	30	35	-
2240.0 ~2300.0 MHz	dB	20	49	-
2300.0 ~ 4500.0 MHz	dB	22	29	-
VSWR within 2150.0 ~ 2170.0 MHz	-	-	1.3	2.3

Notes : (1) No Matching Network (Ref. Testing Environment Circuit as shown below).

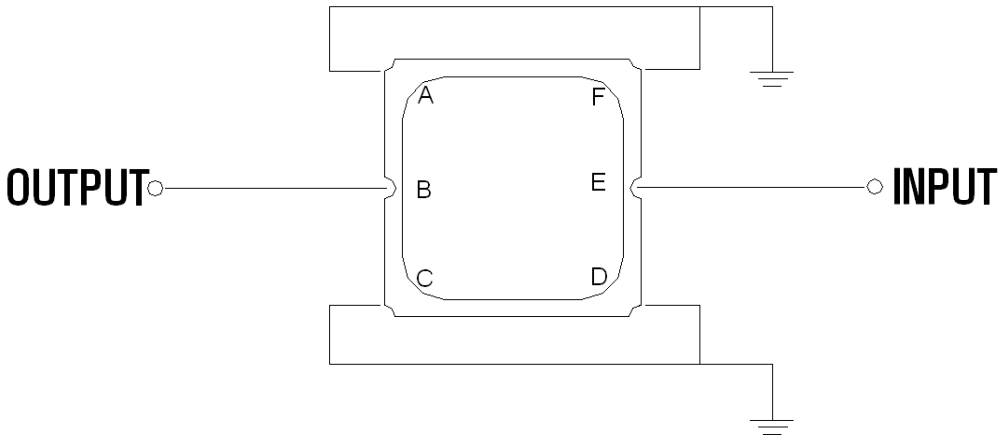
❒ Package Dimensions



Marking Descriptions	
Z	Wireless Application
8	Series Number
a	Date Code(Year)
b	Date Code(Month)

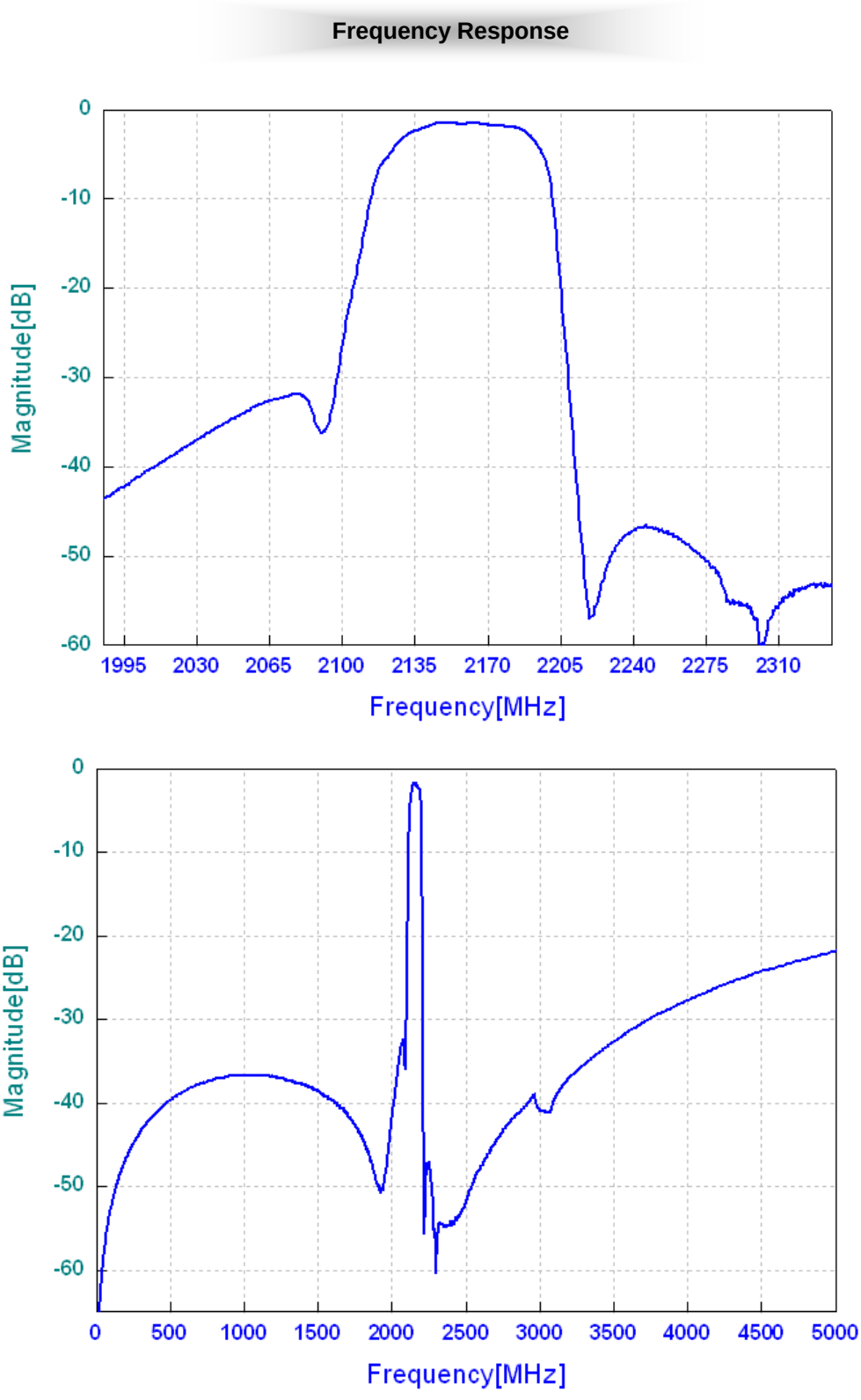
Pin Description	
A, C, D, F	Ground
E	In or Out
B	Out or In

❒ Testing Environment

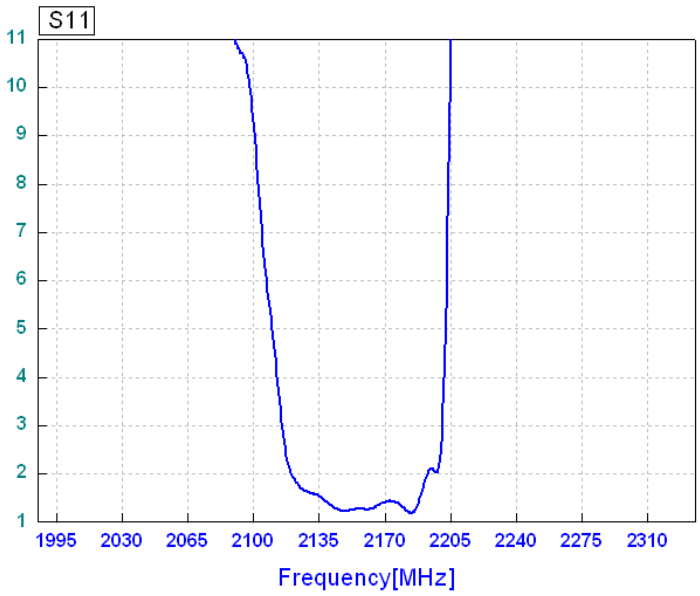


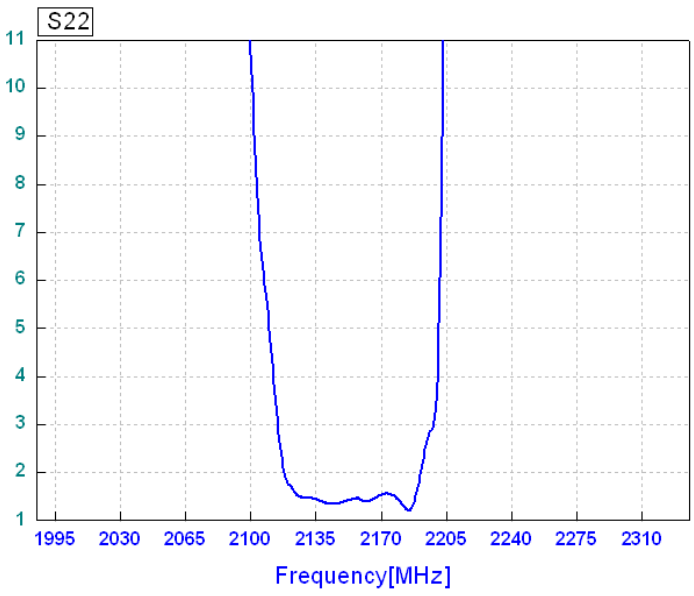
Source & Load Impedance: 50 Ω

❒ Frequency Characteristics



VSWR





Smith Chart