SA1503BM

Wireless, RF SAW Filter
Revision 0: October,2009

RoHS compliance
Pb free

- ❒ Electrical Characteristics
- ❒ Package Dimensions
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- ❒ Frequency Characteristics

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❒ Electrical Characteristics

Maximum Ratings

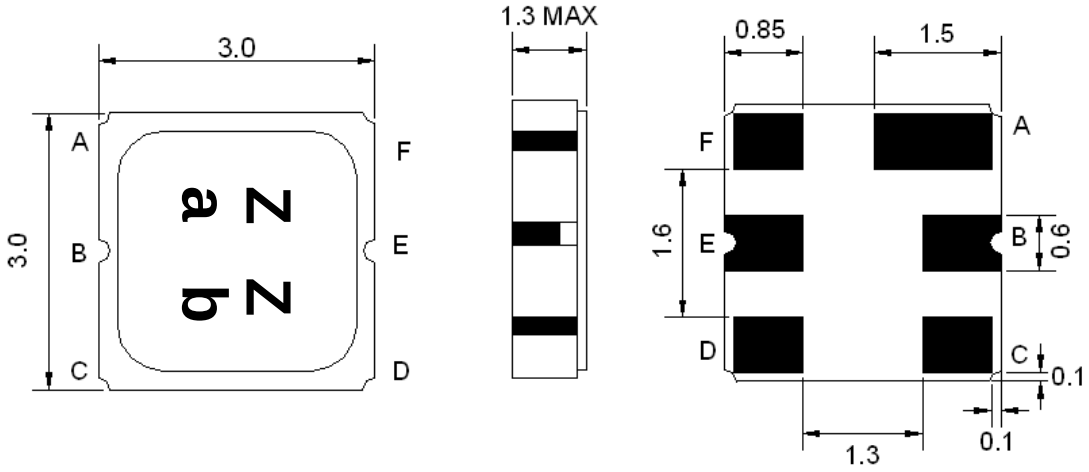
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	M			
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	-	1503.4	-
Insertion Loss within 1495.9 ~ 1510.9 MHz	dB	-	1.9	3.2
Amplitude Ripple within 1495.9 ~ 1510.9 MHz	dB_{p-p}	-	0.7	1.5
Attenuation:				
D.C. ~ 1300.0 MHz	dB	30	38	-
1400.0 ~ 1475.0 MHz	dB	8	17	-
1550.0 ~ 1750.0 MHz	dB	35	39	-
1750.0 ~ 3000.0 MHz	dB	30	39	-
VSWR within 1495.9 ~ 1510.9 MHz	-	-	1.6	2.2

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

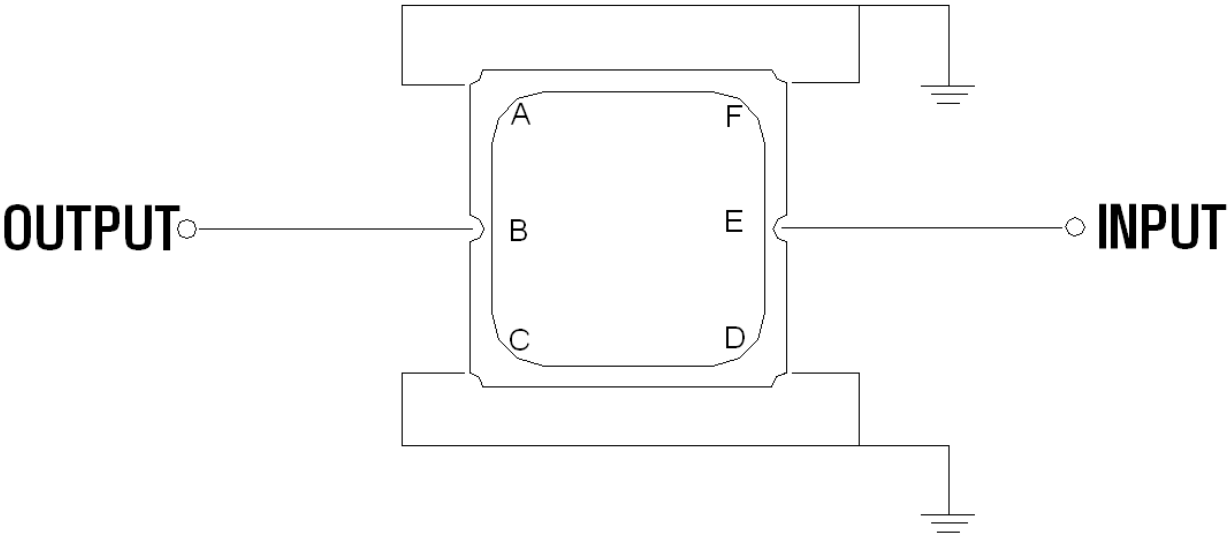
❒ Package Dimensions



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

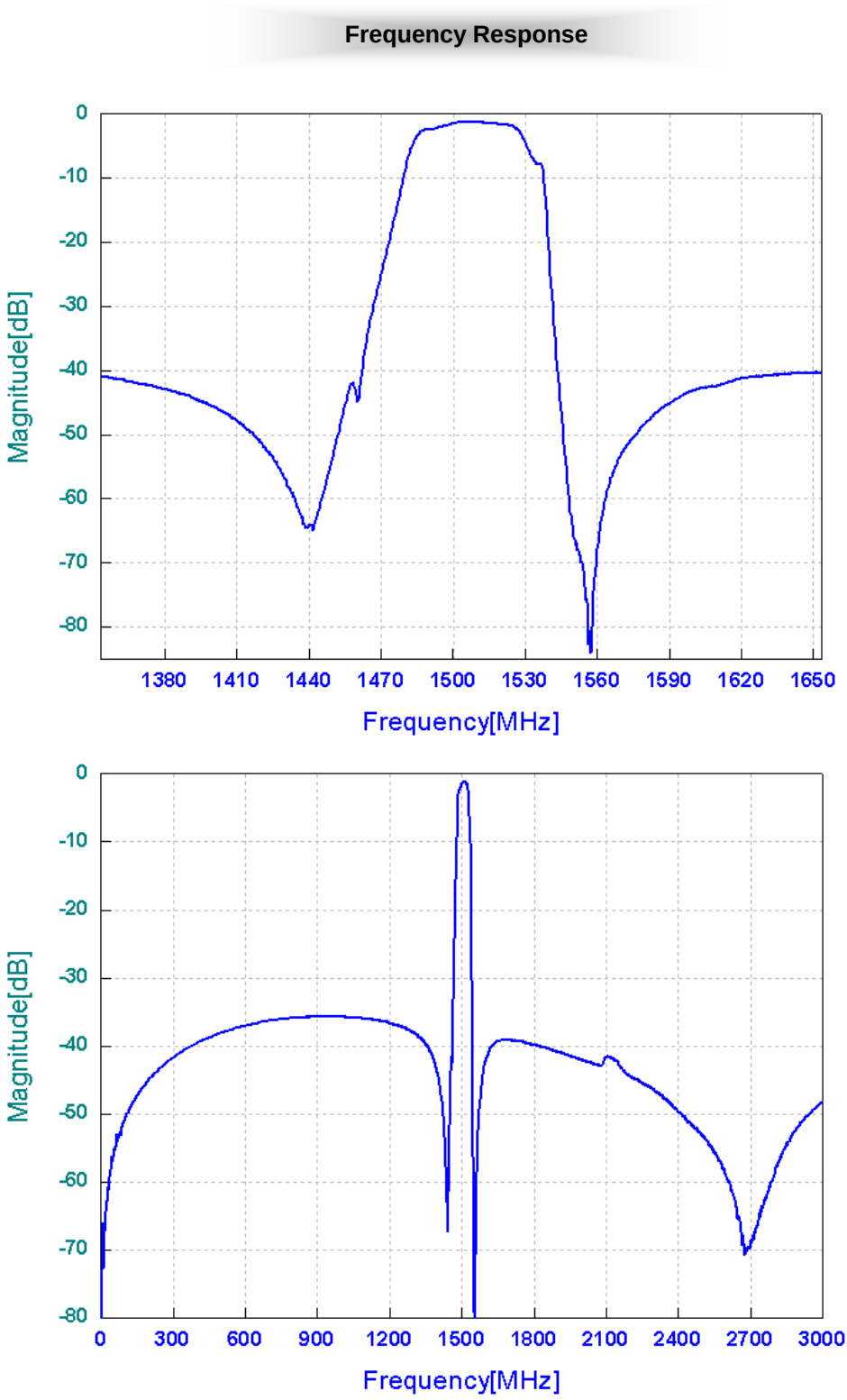
Pin Description	
A, C, D, F	Ground
B	In or Out
E	Out or In

❒ Testing Environment

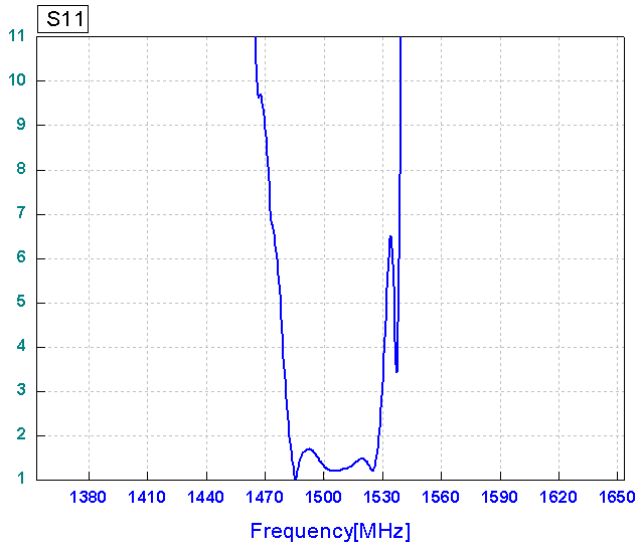


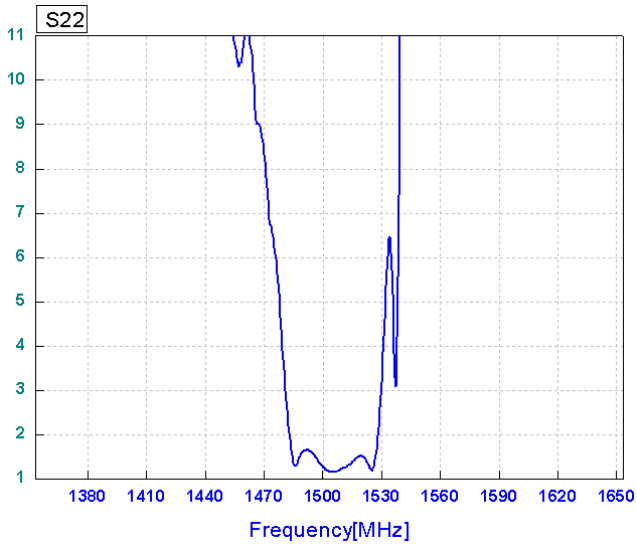
Source & Load Impedance: 50 Ω

❒ Frequency Characteristics



VSWR





Smith Chart