SA915GM

Wireless, RF SAW Filter
Revision 0: February 2007

RoHS compliance
Pb free

- ❒ Electrical Characteristics
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- ❒ Frequency Characteristics

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❒ Electrical Characteristics

Maximum Ratings

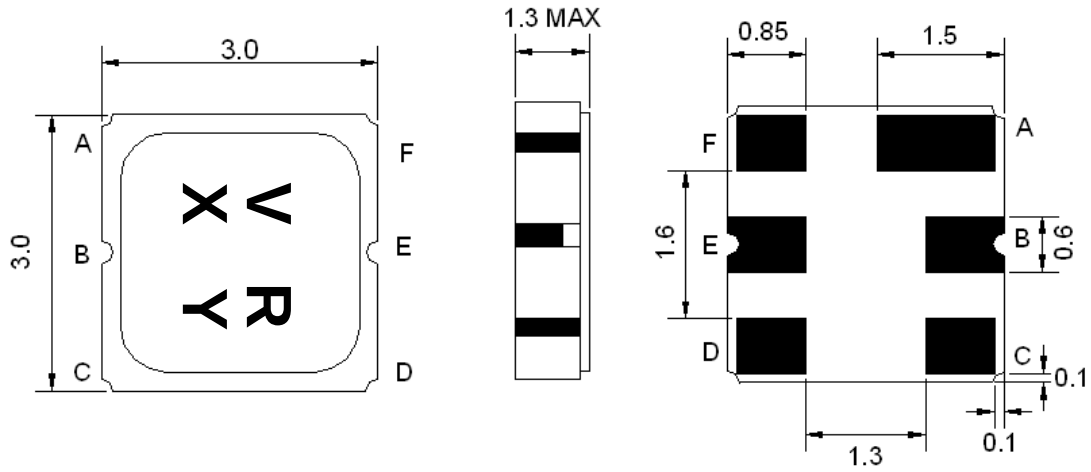
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	M			
Length x Width	mm²	-	3.0 x 3.0	-
Height	mm	-	-	1.3

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	915.0	-
Insertion Loss within 911.5 ~ 918.5 MHz	dB	-	2.6	4.0
Amplitude Ripple within 911.5 ~ 918.5 MHz	dB_{p-p}	-	0.5	1.5
Attenuation:				
D.C. ~ 600 MHz	dB	50	60	-
600 ~ 840 MHz	dB	40	55	-
869 ~ 894 MHz	dB	35	45	-
970 ~ 1500 MHz	dB	40	50	-
VSWR within 911.5 ~ 918.5 MHz	-	-	1.5	2.0

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

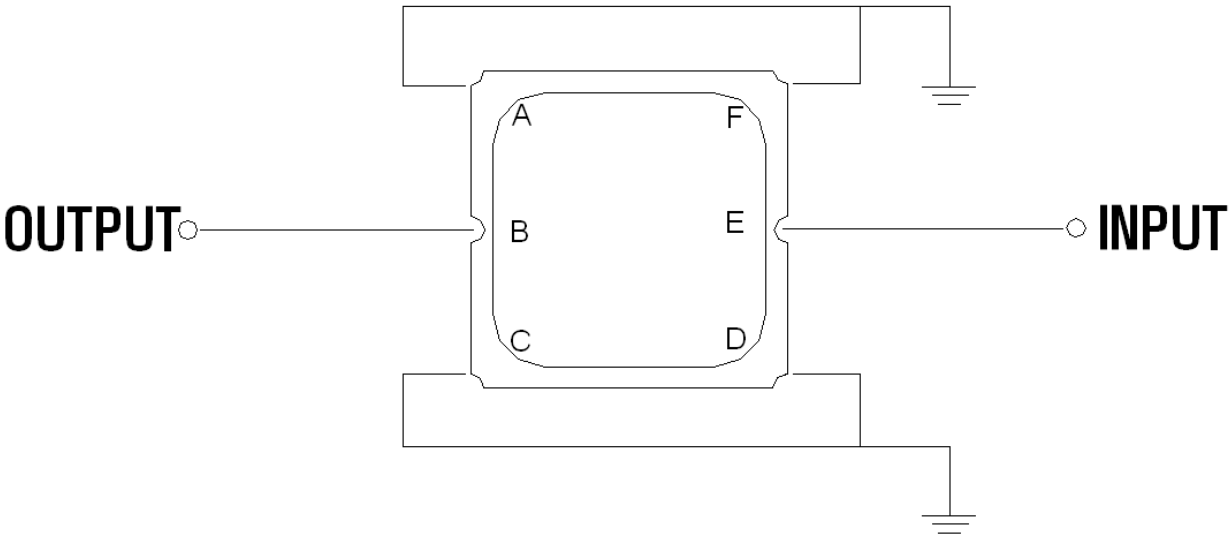
❒ Package Dimensions



Marking Descriptions	
V	Wireless Application
R	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

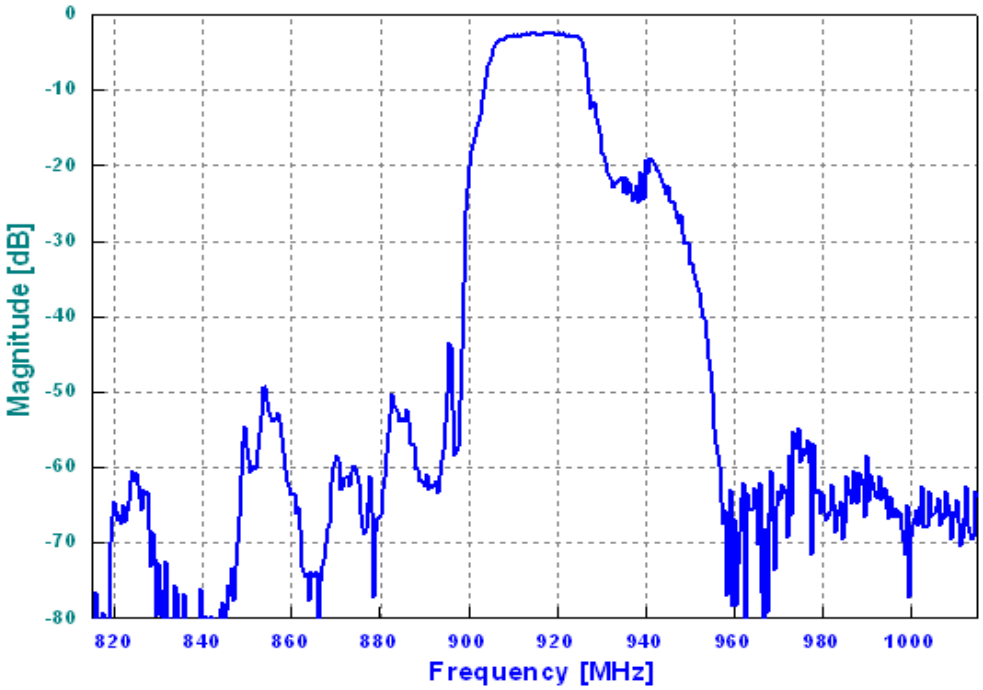
❒ Testing Environment

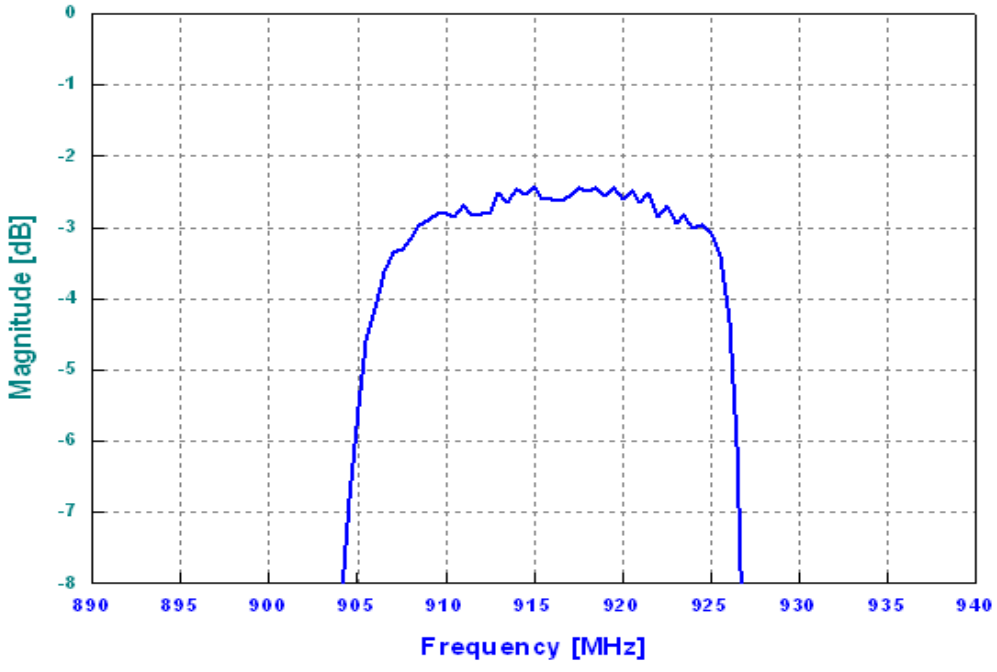


Source & Load Impedance: 50 Ω

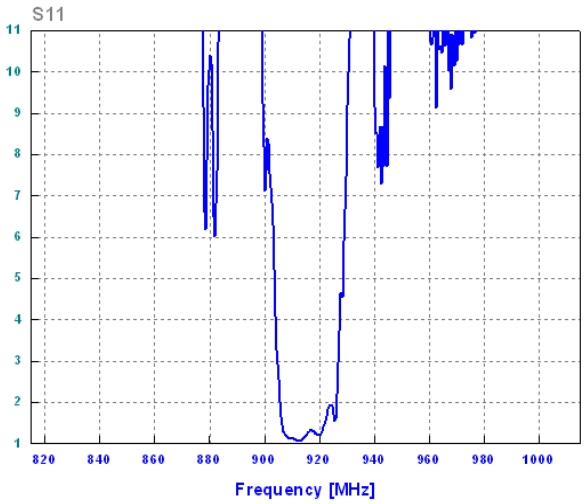
❒ Frequency Characteristics

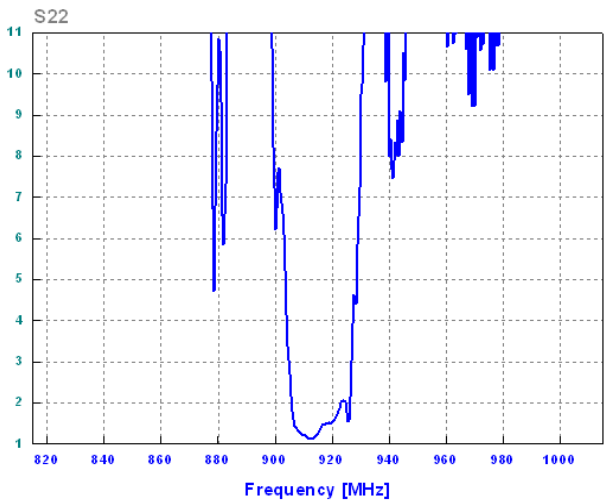
Frequency Response





VSWR





Smith Chart