



Total Solution Provider in Saw Device

SA940AM

Wireless, RF SAW Filter
Revision 0: January 2009



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

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□ Electrical Characteristics

Maximum Ratings

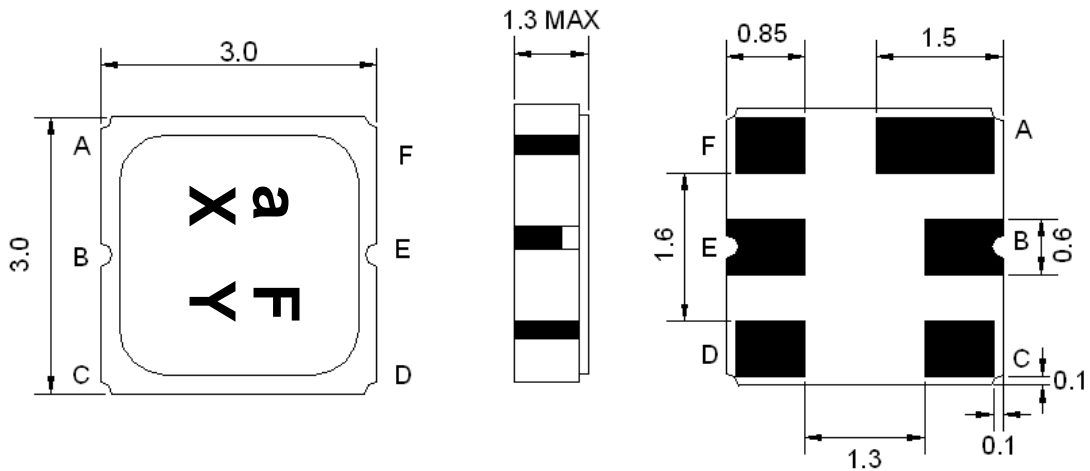
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-10	-	+75
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	940.5	-
Insertion Loss within 921.0 ~ 960.0 MHz	dB	-	3.2	4.4
Amplitude Ripple within 921.0 ~ 960.0 MHz	dB _{p-p}	-	1.5	2.6
Attenuation: (Reference level from 0 dB)				
0 ~ 800.0 MHz	dB	45	60	-
800.0 ~ 880.0 MHz	dB	38	47	-
880.0 ~ 902.0 MHz	dB	31	42	-
981.0 ~ 985.0 MHz	dB	19	27	-
985.0 ~ 1005.0 MHz	dB	23	28	-
1005.0 ~ 1025.0 MHz	dB	28	33	-
1025.0 ~ 1760.0 MHz	dB	40	50	-
1760.0 ~ 2300.0 MHz	dB	30	39	-
2300.0 ~ 3000.0 MHz	dB	20	27	-
VSWR within 921.0 ~ 960.0 MHz	-	-	2.0	2.6

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

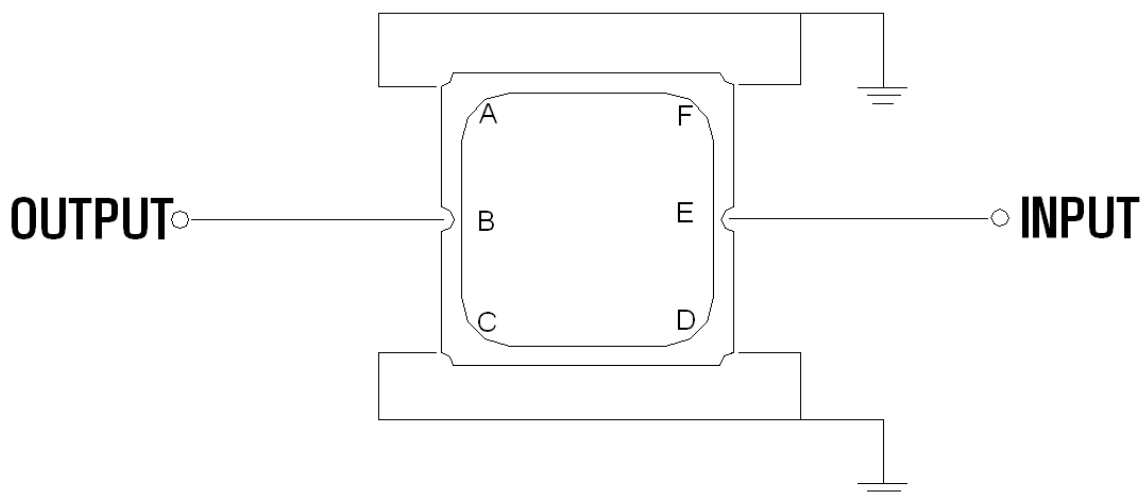
Package Dimensions



Marking Descriptions	
a	Wireless Application
F	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

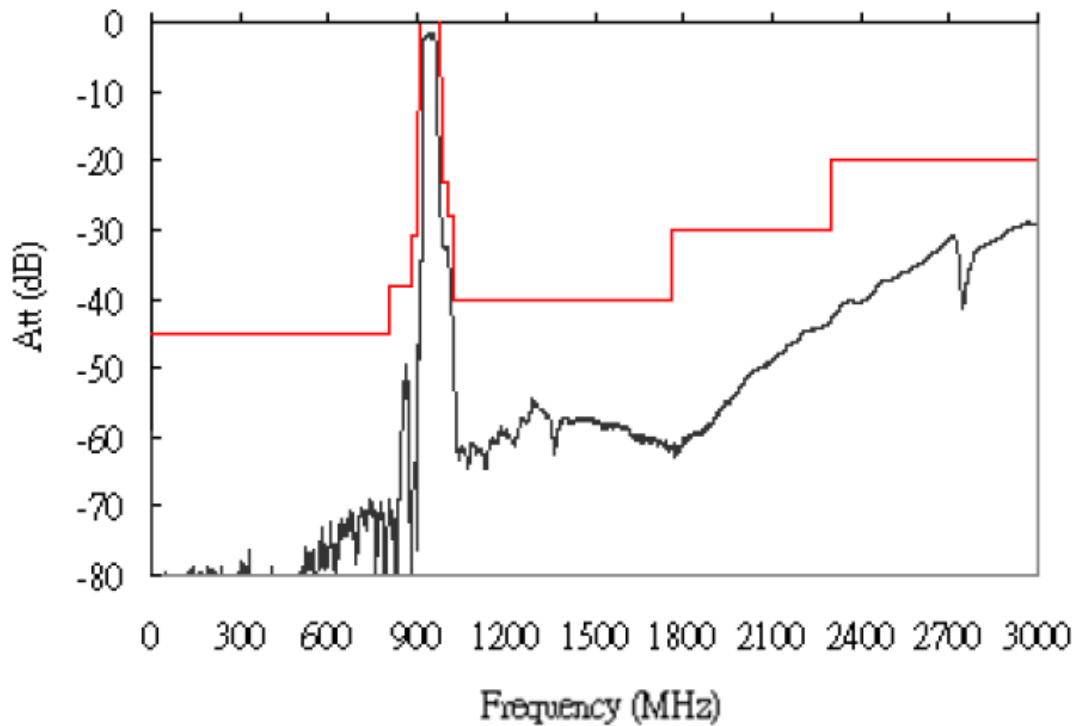
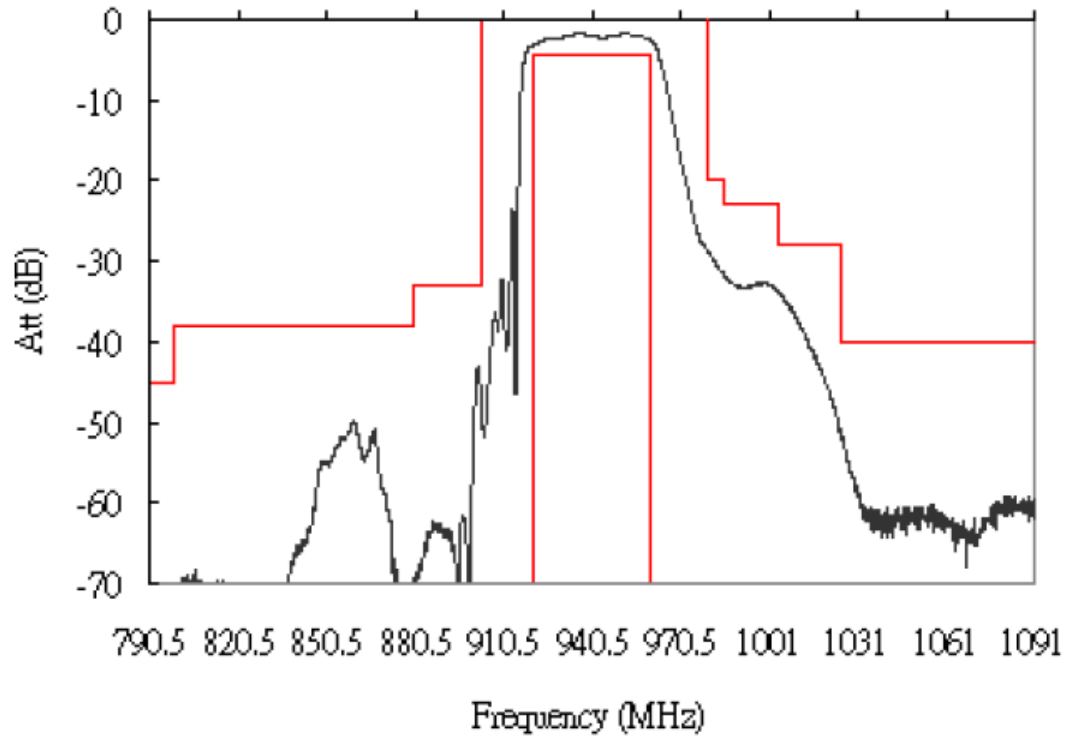
Testing Environment



Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR

