



*Total Solution Provider in Saw Device*

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# SA1220EM1

Wireless, Balanced RF SAW Filter

Revision 0: June 2008



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

### Maximum Ratings

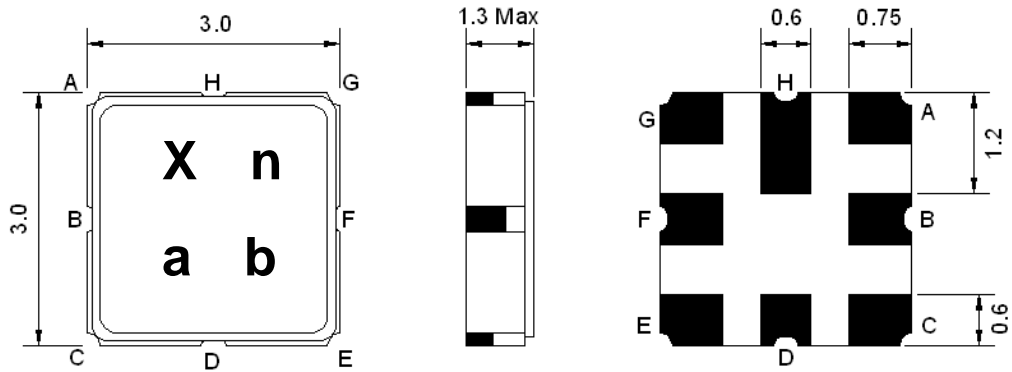
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	15
Source Impedance (balanced ended) <sup>(1)</sup>	Ω	-	200	-
Load Impedance (balanced ended) <sup>(1)</sup>	Ω	-	200	-
Package type & size	M1			
Length x Width	mm <sup>2</sup>	-	3.0 x 3.0	-
Height	mm	-	-	1.3

### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1220.0	-
Insertion Loss within 1216.0 ~ 1224.0 MHz	dB	-	3.0	3.5
Amplitude Ripple within 1216.0 ~ 1224.0 MHz	dB <sub>p-p</sub>	-	0.8	1.3
Group Delay Ripple within 1216.0 ~ 1224.0 MHz	ns <sub>p-p</sub>	-	15	20
<b>Attenuation</b>				
500.0 ~ 1152.0 MHz	dB	50	55	-
1152.0 ~ 1184.0 MHz	dB	44	47	-
1290.0 ~ 2000.0 MHz	dB	50	55	-

**Notes :** (1) No Matching Network .

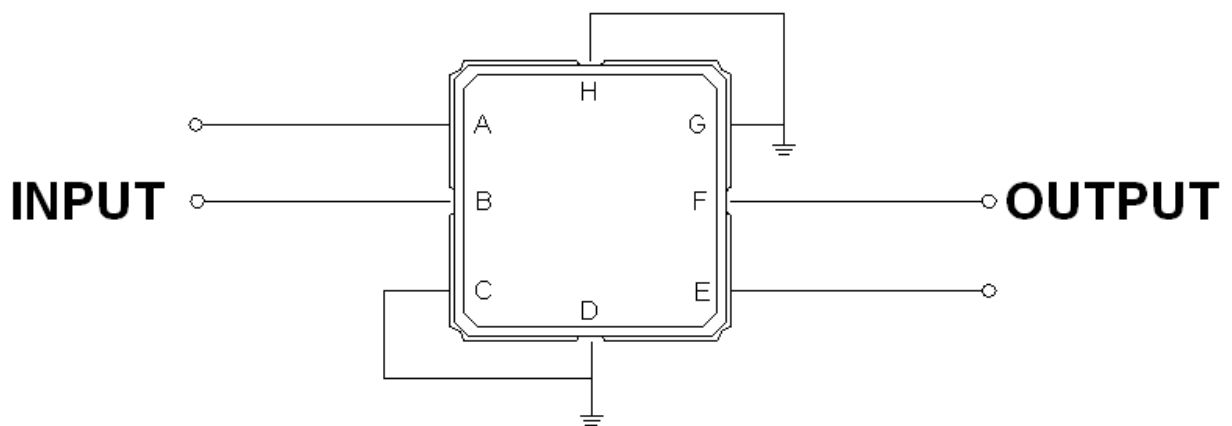
**Package Dimensions**



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

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

**Testing Environment**



Source Impedance : 200 Ω

Load Impedance : 200 Ω

**□ Frequency Characteristics**

Frequency Response

