



*Total Solution Provider in Saw Device*

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# SA810AM

Wireless, RF SAW Filter  
Revision 0: February 2005



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

### Maximum Ratings

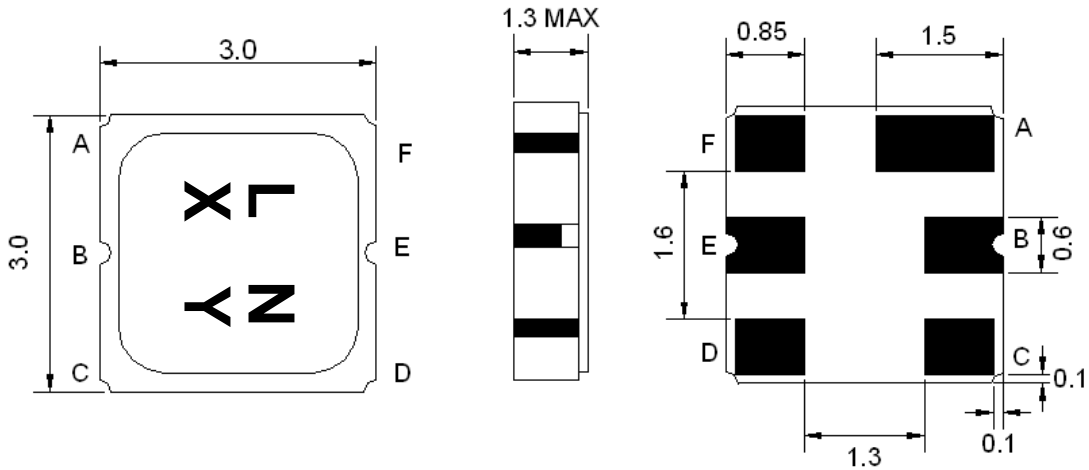
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	M			
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	-	810.0	-
Insertion Loss within 805.0~815.0MHz	dB	-	2.9	3.5
Amplitude Ripple within 805.0~815.0MHz	dB <sub>p-p</sub>	-	0.6	1.5
Group Delay Variation within 805.0~815.0MHz	nsec	-	20.0	40.0
10 dB Bandwidth	MHz	-	24.5	30.0
20 dB Bandwidth	MHz	-	30.0	40.0
40 dB Bandwidth	MHz	-	49.0	60.0

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

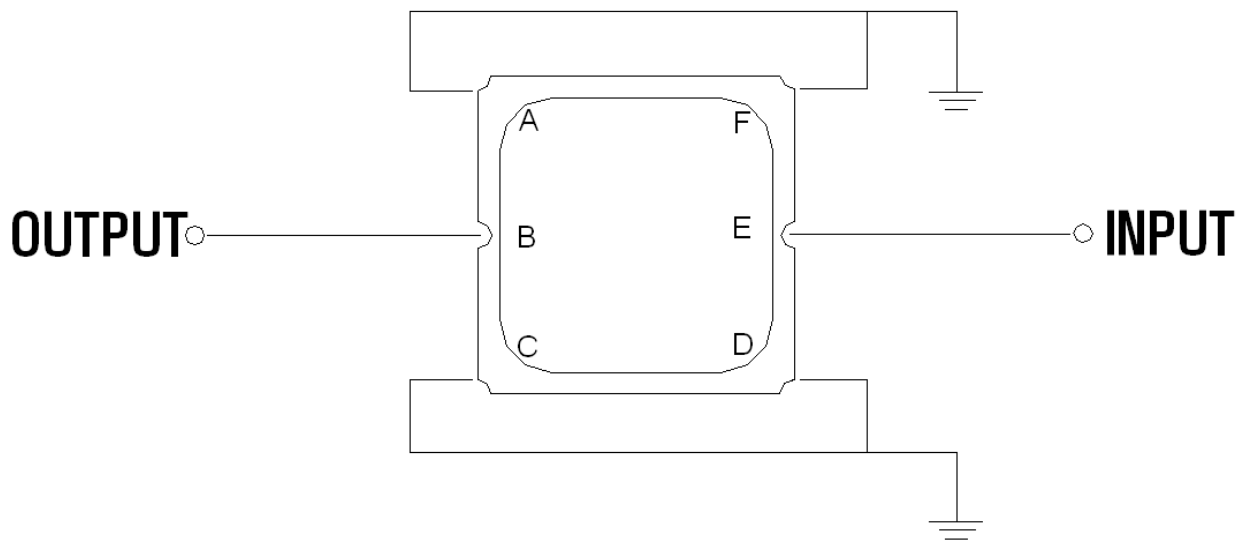
**Package Dimensions**



Marking Descriptions	
L	Wireless Application
N	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

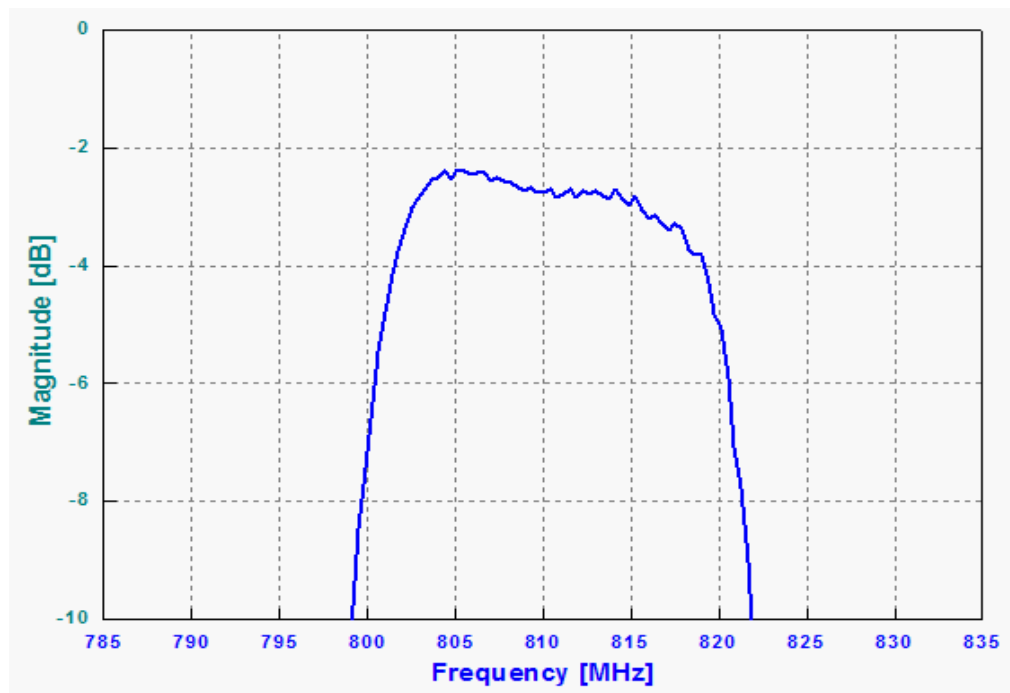
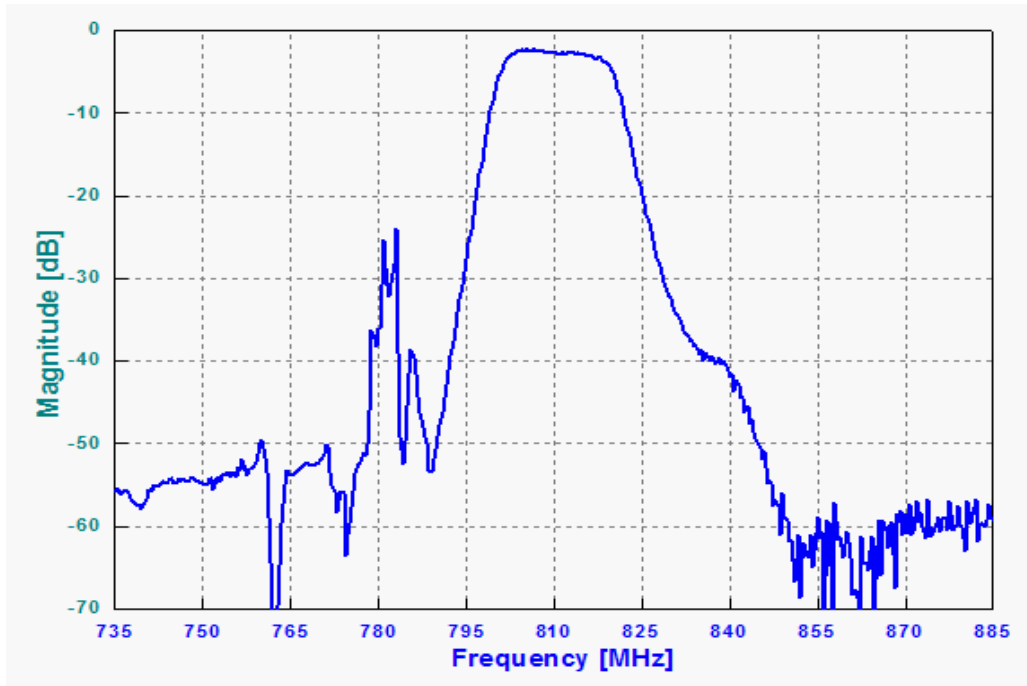
**Testing Environment**



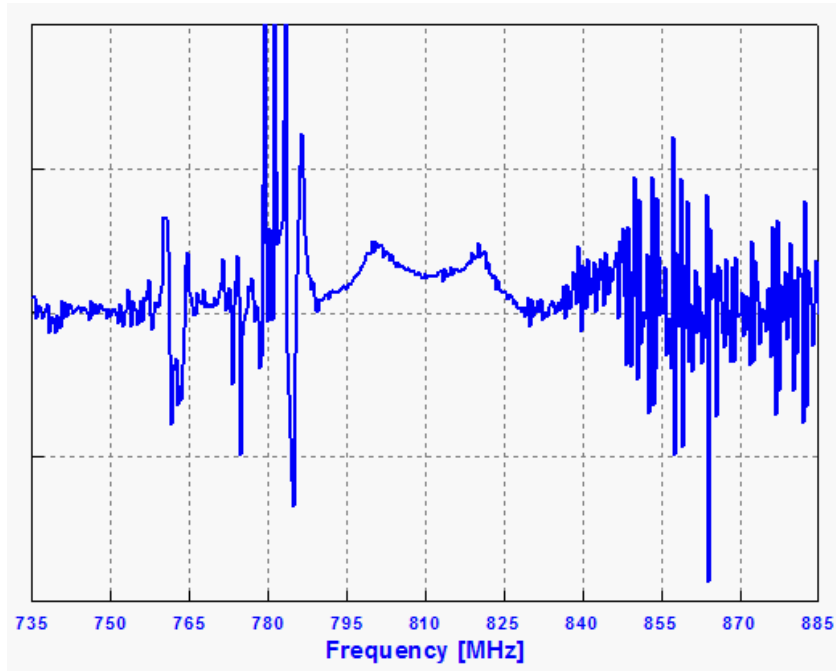
Source & Load Impedance: 50 Ω

**□ Frequency Characteristics**

Frequency Response



### Group Delay



### Smith Chart

