



Total Solution Provider in Saw Device

SA815BM

iDEN, RF-Tx SAW Filter
Revision 1: January 2010



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

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□ Electrical Characteristics

Maximum Ratings

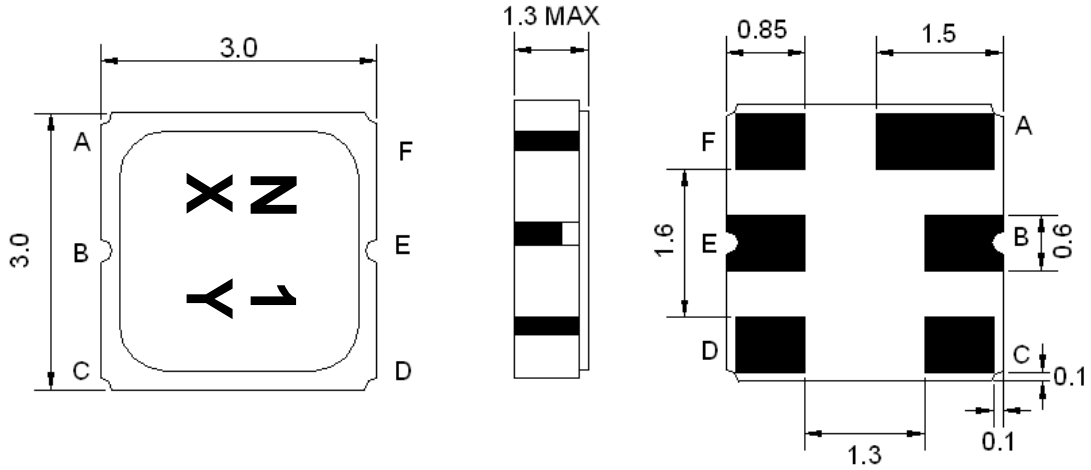
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	20
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	815.5	-
Insertion Loss within 806 ~ 825 MHz	dB	-	2.4	3.5
Group delay ripple within 806 ~ 825 MHz	ns _{p-p}	-	15	30
Attenuation:				
851.0 ~ 866.0 MHz	dB	40	46	-
935.0 ~ 940.0 MHz	dB	35	40	-
960.65 ~ 979.65 MHz	dB	35	41	-
1115.30 ~ 1134.30 MHz	dB	37	42	-
1269.95 ~ 1288.95 MHz	dB	40	51	-
1612.0 ~ 1650.0 MHz	dB	35	43	-
1650.0 ~ 2600.0 MHz	dB	25	30	-
VSWR within 806 ~ 825 MHz	-	-	1.7	2.0

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

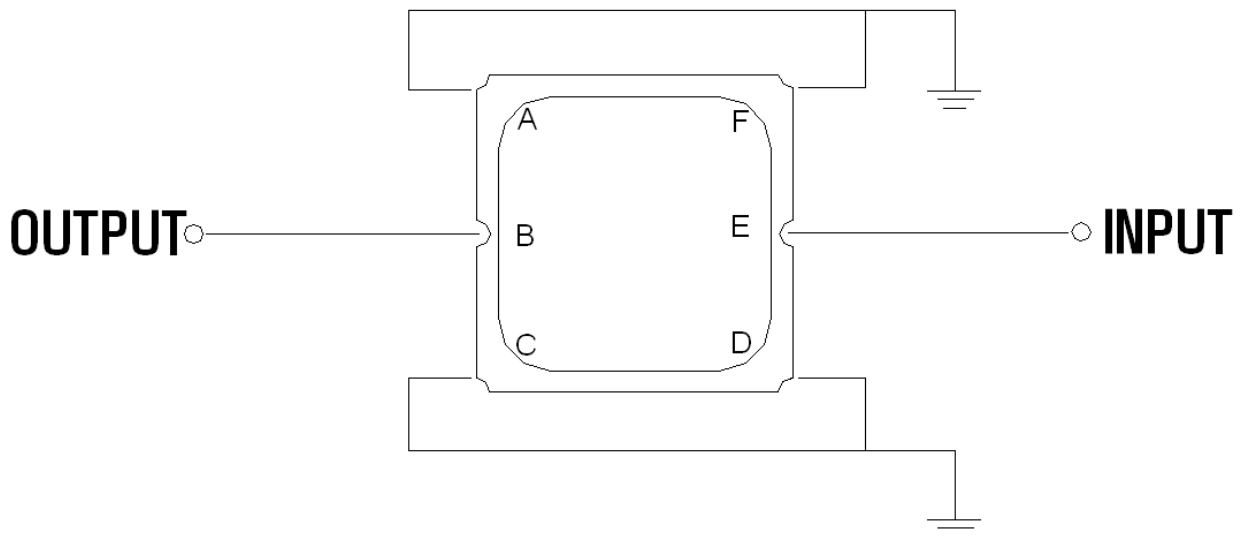
Package Dimensions



Marking Descriptions	
N	IDEN Application
1	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

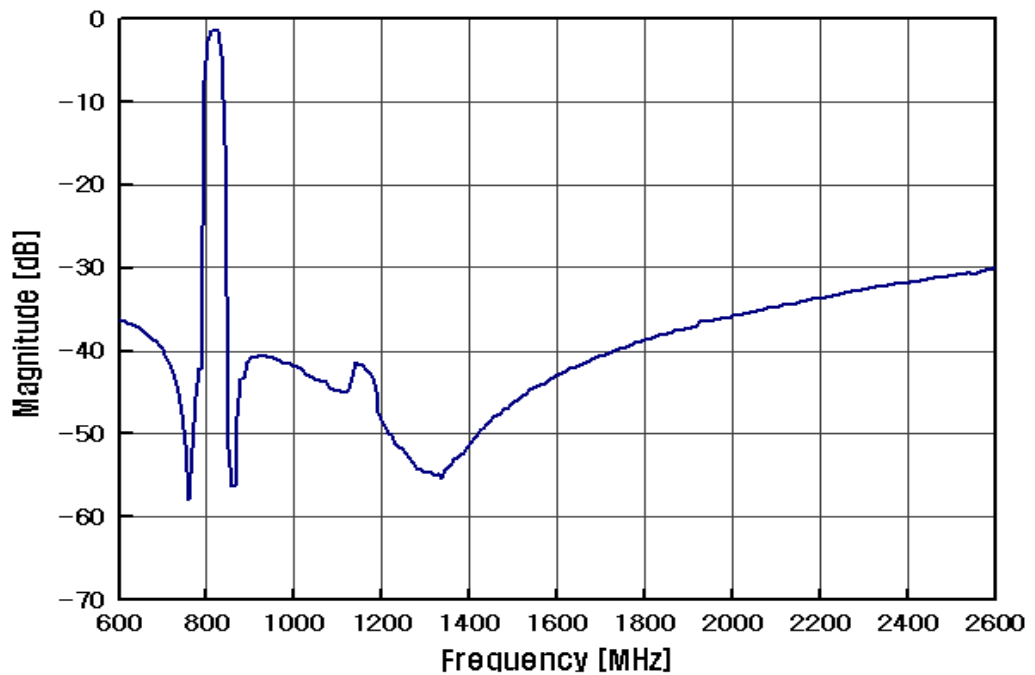
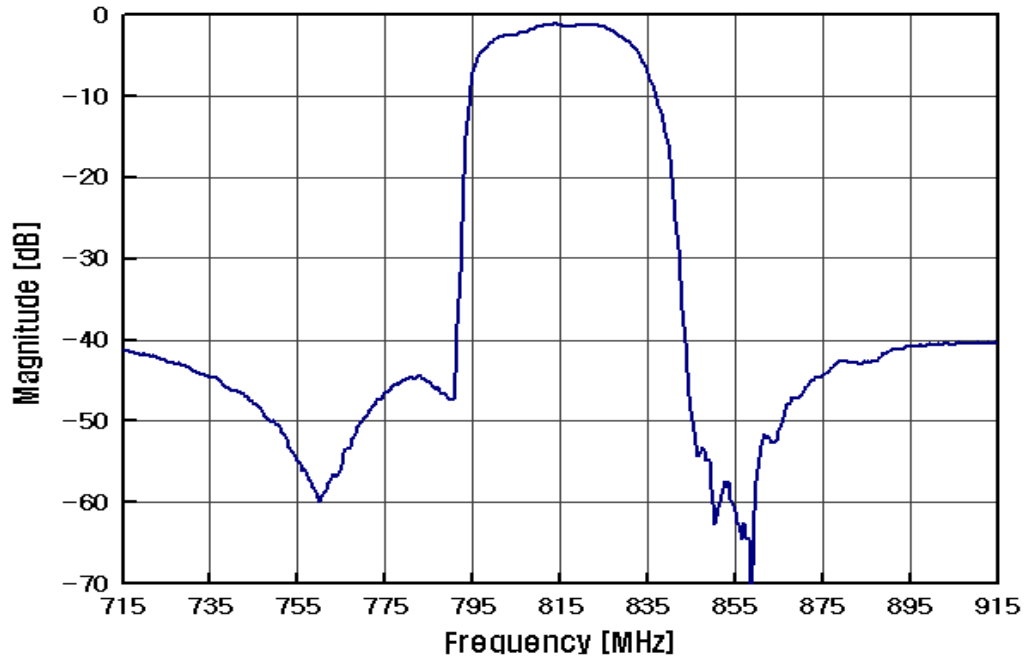
Testing Environment



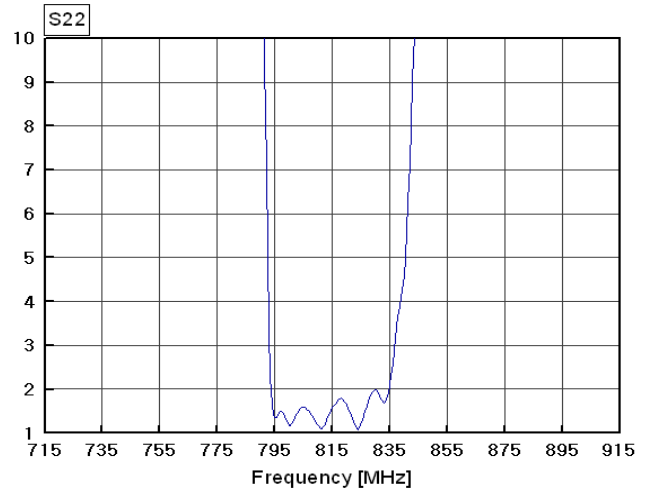
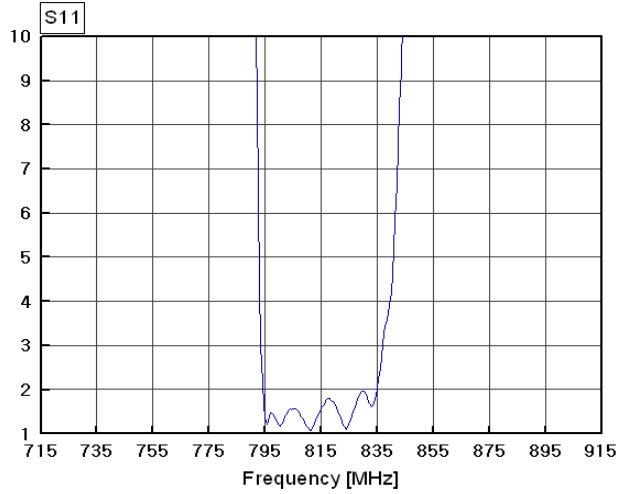
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

