



Total Solution Provider in Saw Device

SA847EM

Wireless, RF SAW Filter
Revision 0: June 2011



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

SAWNICS Inc.

460 Cheonheung-ri, Seonggeo-eup, Cheonan-si, Chungcheongnam-do, 330-836 / Korea.
Tel: +82 41 550 9372 / Fax: +82 41 550 9399 / www.sawnics.com

□ Electrical Characteristics

Maximum Ratings

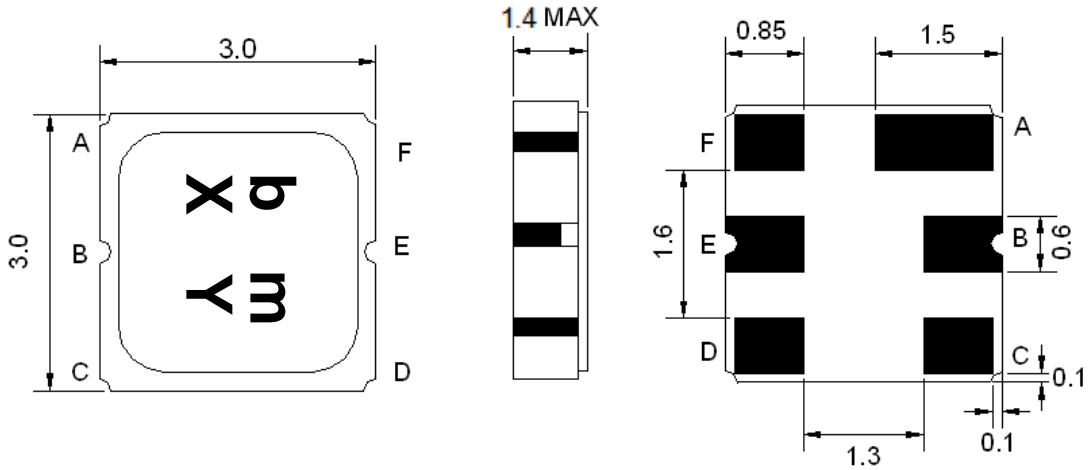
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	0	-	+50
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
Length x Width	mm ²	-	3.0 x 3.0	-
Height	mm	-	-	1.3

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	847.0	-
Insertion Loss within 842.0 ~ 852.0 MHz	dB	-	2.1	3.0
Amplitude Ripple within 842.0 ~ 852.0 MHz	dB _{p-p}	-	0.4	1.0
Return Loss within 842.0 ~ 852.0 MHz	dB	10	12	-
Attenuation:				
702.0 ~ 712.0 MHz	dB	50	60	-
1000.0 ~ 3000.0 MHz	dB	30	33	-
20.0 ~ 650.0 MHz	dB	50	60	-
912.0 ~ 922.0 MHz	dB	45	60	-
772.0 ~ 782.0 MHz	dB	45	55	-
801.0 ~ 811.0 MHz	dB	40	53	-

Notes : (1) No Matching Network .

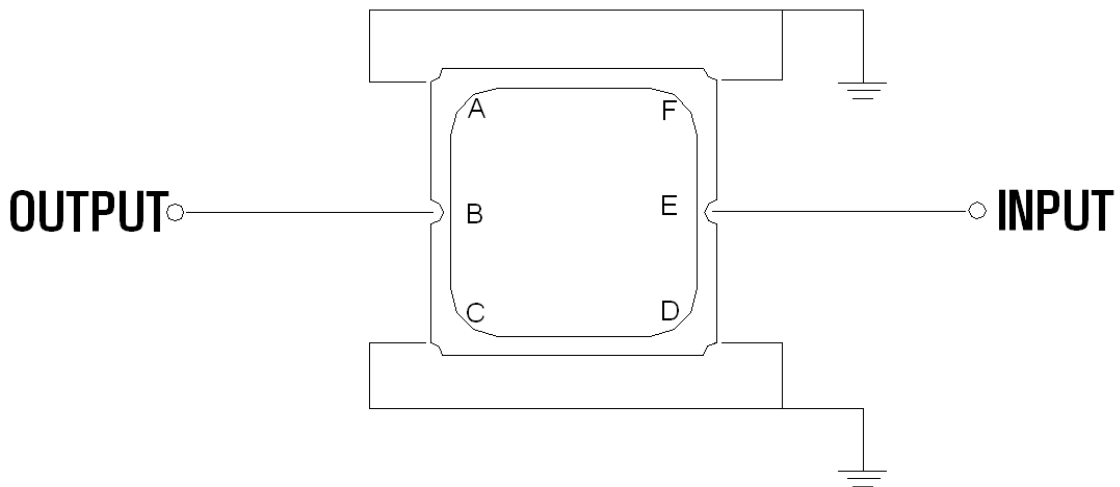
Package Dimensions



Marking Descriptions	
b	Wireless Application
m	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

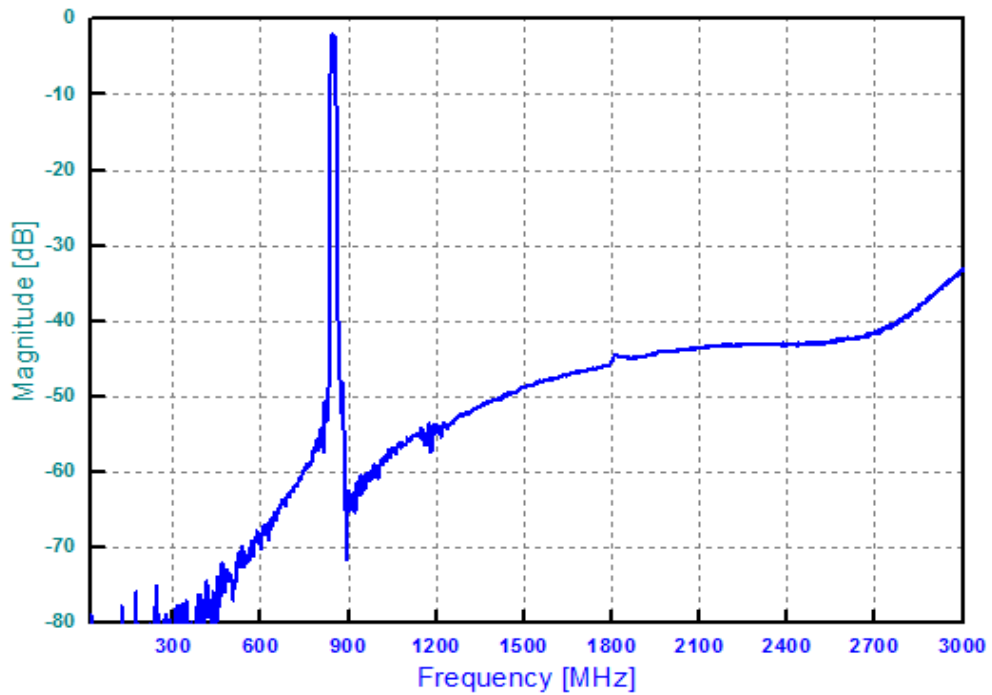
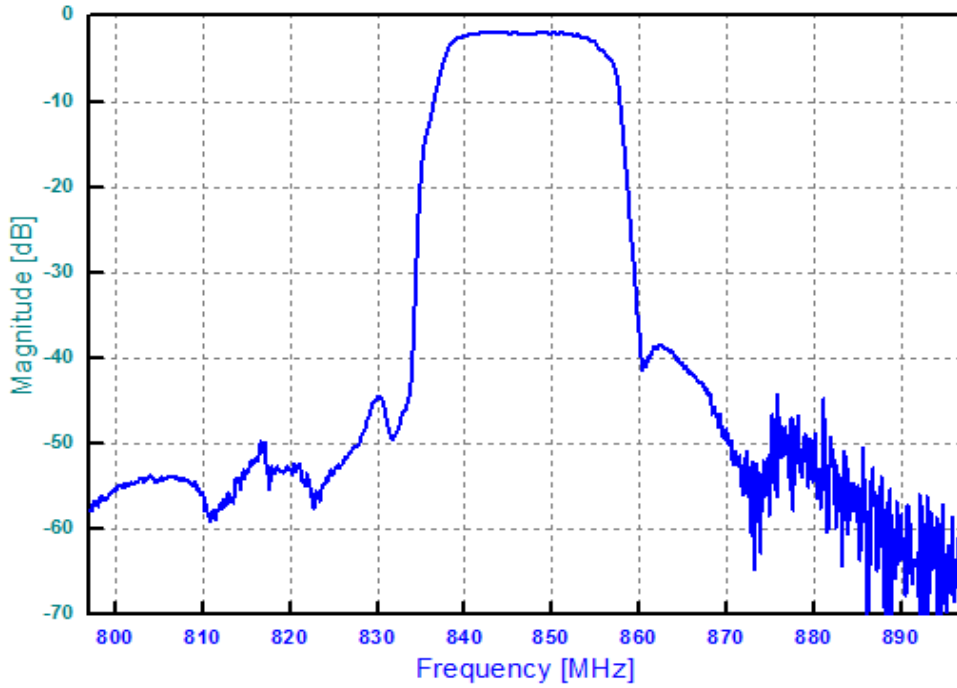
Testing Environment



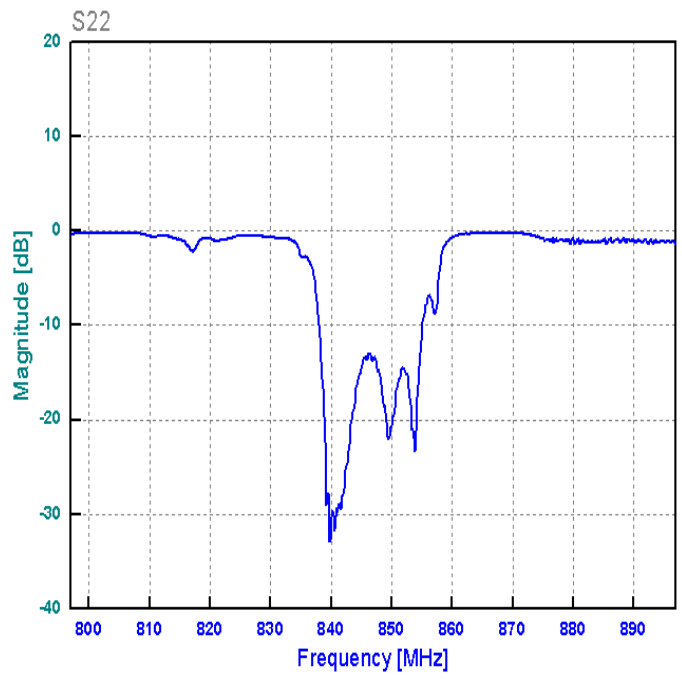
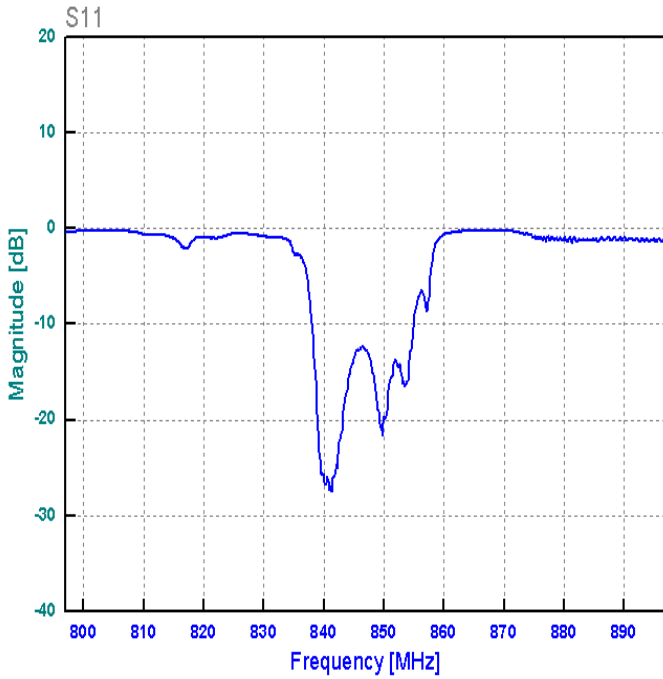
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



Return Loss



Smith Chart

