



Total Solution Provider in Saw Device

SA827DM

Wireless, RF SAW Filter
Revision 0: March 2010



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

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□ Electrical Characteristics

Maximum Ratings

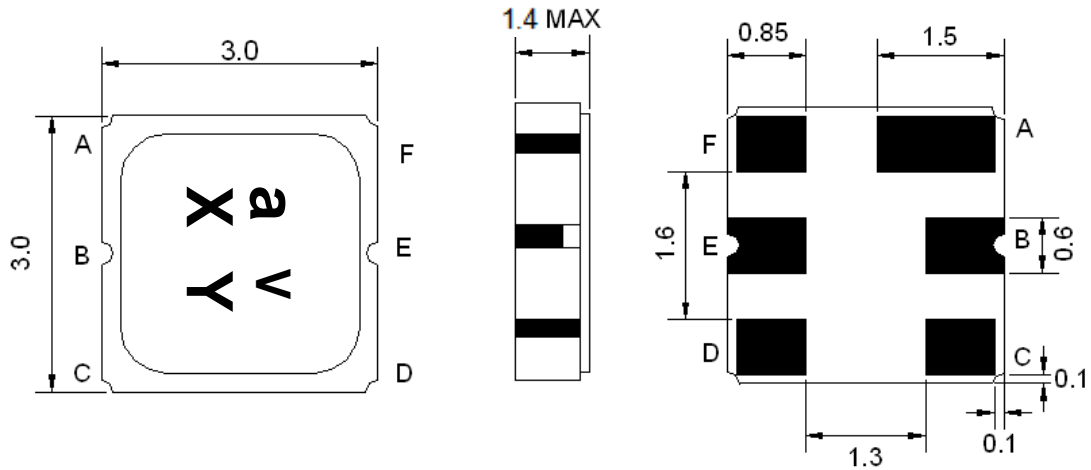
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
Length x Width	mm ²	-	3.0 x 3.0	-
Height	mm	-	-	1.4

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	827.5	-
Insertion Loss within 820.0 ~ 835.0 MHz	dB	-	2.7	3.5
Amplitude Ripple within 820.0 ~ 835.0 MHz	dB _{pp}	-	0.7	1.5
Attenuation				
10.0 ~ 780.0 MHz	dB	40	45	-
865.0 ~ 880.0 MHz	dB	25	32	-
880.0 ~ 920.0 MHz	dB	35	40	-
920.0 ~ 1220.0 MHz	dB	40	45	-
VSWR within 820.0 ~ 835.0 MHz	-	-	1.5	2.0

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

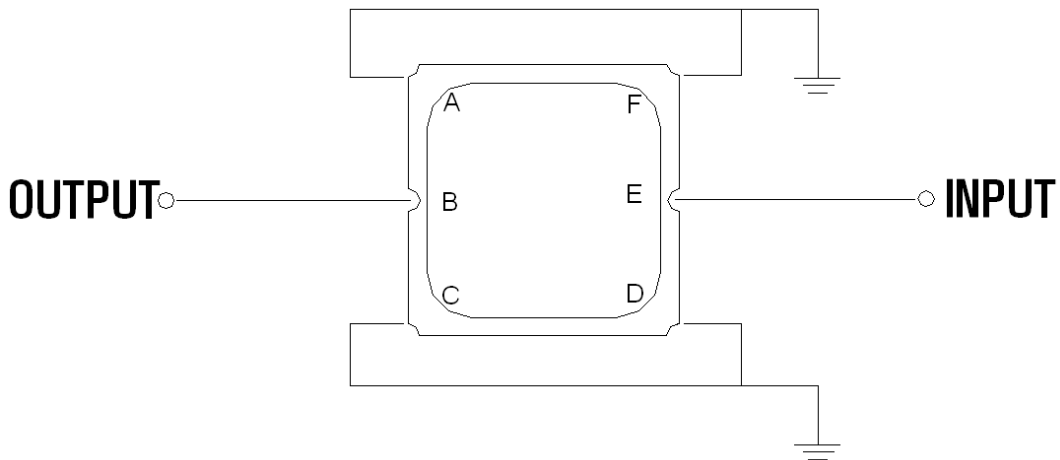
Package Dimensions



Marking Descriptions	
a	Wireless Application
V	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

