



Total Solution Provider in Saw Device

SA1587BM

Wireless, RF SAW Filter
Revision 0: July 2010



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

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□ Electrical Characteristics

Maximum Ratings

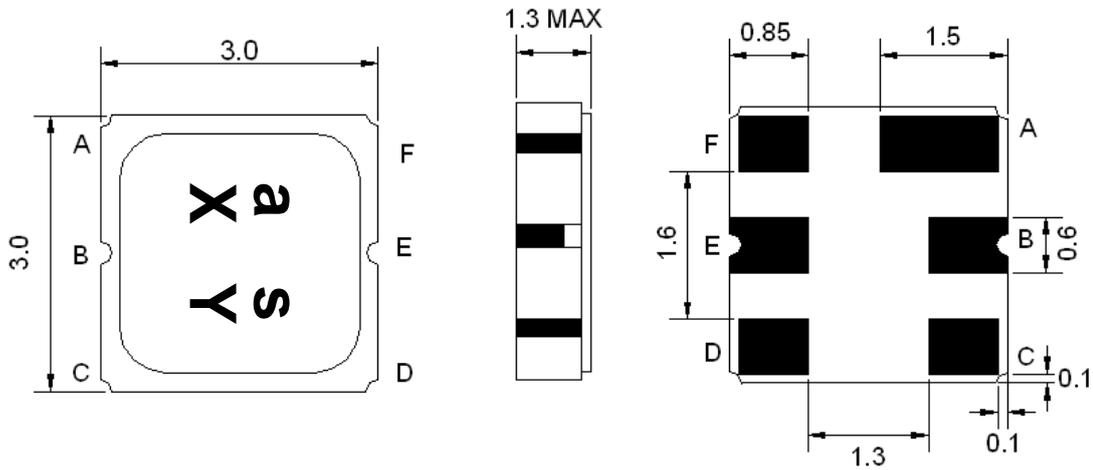
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	-
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
Length x Width	mm ²	-	3.0 x 3.0	-
Height	mm	-	-	1.3

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1587.1	-
Insertion Loss within 1559.6 ~ 1614.6 MHz	dB	-	3.0	3.8
Amplitude Ripple within 1559.6 ~ 1614.6 MHz	dB _{p-p}	-	0.8	1.8
Group Delay Variation within 1559.6 ~ 1614.6 MHz	ns _{p-p}	-	8	30
Attenuation:				
1300.0 ~ 1435.0 MHz	dB	20	24	-
1435.0 ~ 1525.0 MHz	dB	20	23	-
1653.0 ~ 1743.0 MHz	dB	20	23	-
1743.0 ~ 1887.0 MHz	dB	15	19	-

Notes : (1) With Matching Network

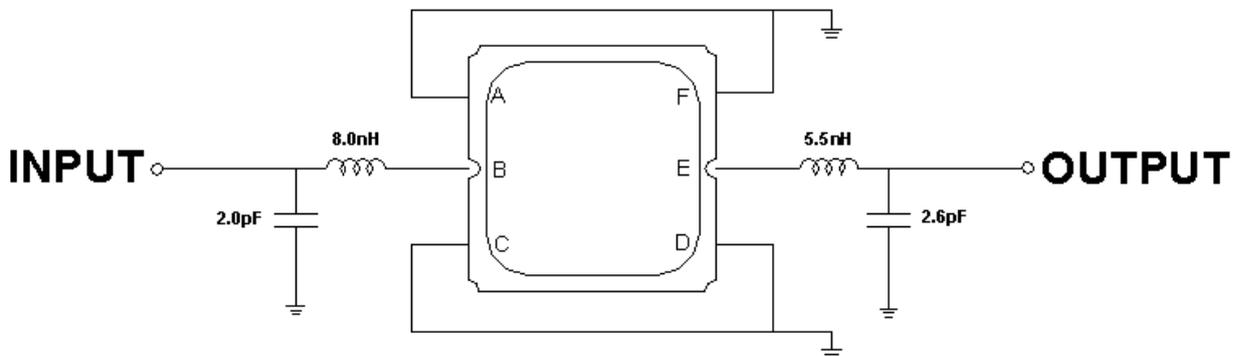
Package Dimensions



Marking Descriptions	
a	Wireless Application
s	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

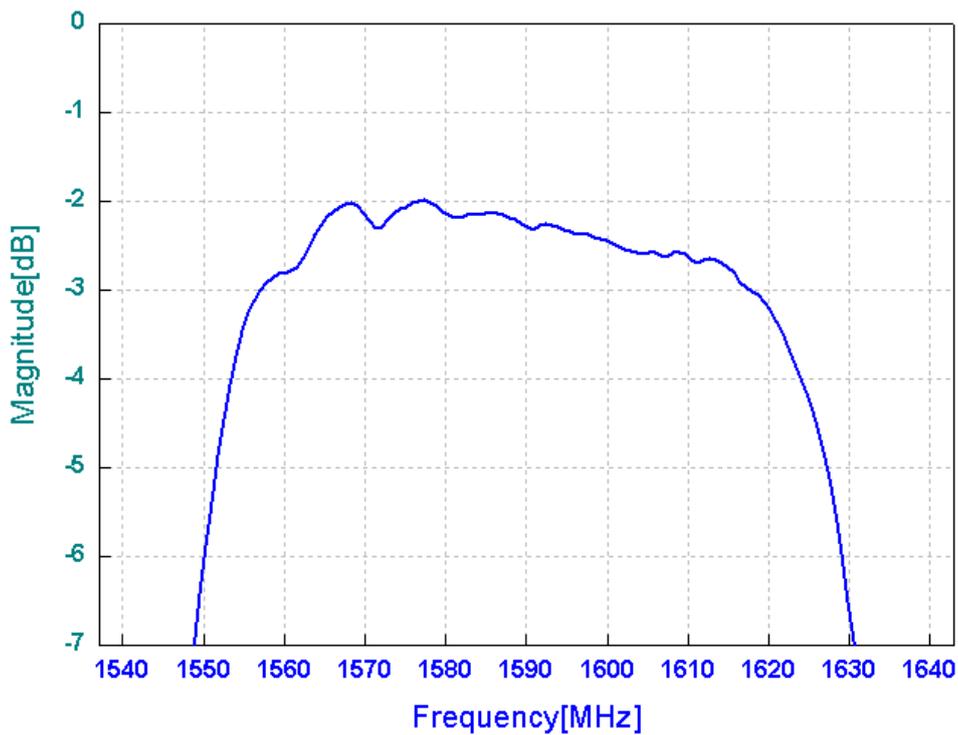
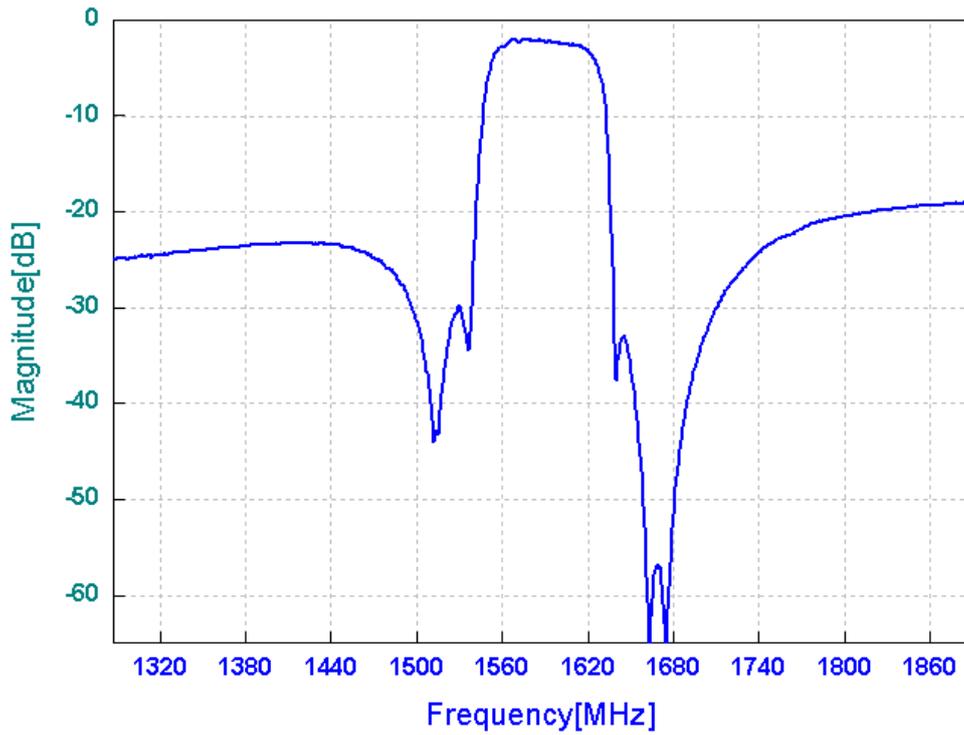
Testing Environment



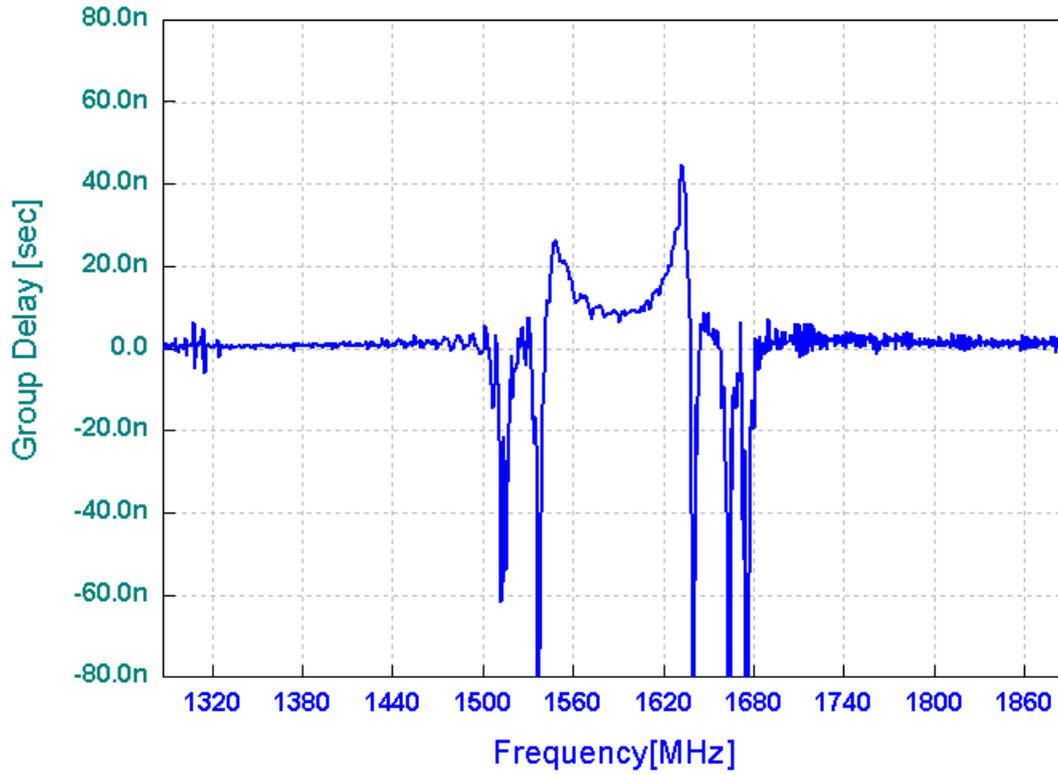
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



Group Delay



Smith Chart

