



Total Solution Provider in Saw Device

SA173AK

Wireless, RF SAW Filter
Revision 0: July 2008



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

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□ Electrical Characteristics

Maximum Ratings

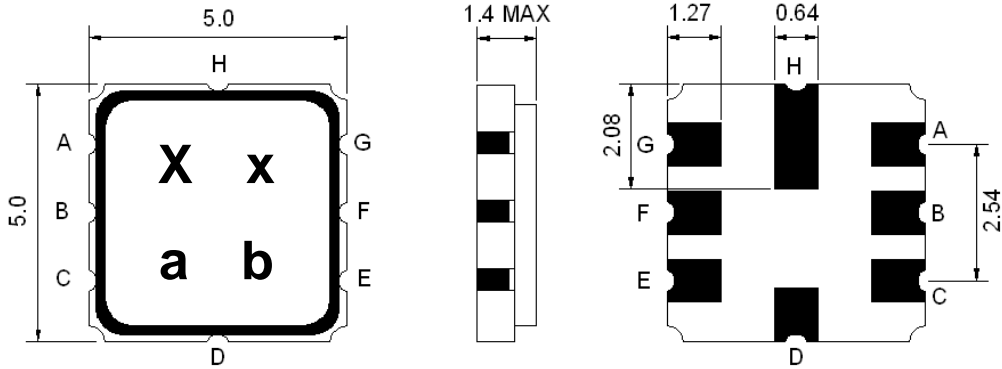
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	13
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	K			
Length x Width	mm ²	-	5.0 x 5.0	-
Height	mm	-	-	1.4

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	173.15	-
Insertion Loss within 173.025~173.275 MHz	dB	-	1.6	2.5
Amplitude Ripple within 173.025~173.275 MHz	dB _{p-p}	-	0.2	1.0
Return Loss within 173.025~173.275 MHz	dB	10	13	-
Stop Band Attenuation:				
D.C ~ 163.0 MHz	dB	45	58	-
163.0 ~ 165.0 MHz	dB	40	55	-
165.0 ~ 170.15 MHz	dB	30	40	-
177.15 ~ 182.0 MHz	dB	35	45	-
182.0 ~ 400.0 MHz	dB	35	40	-

Notes : (1) No Matching Network .

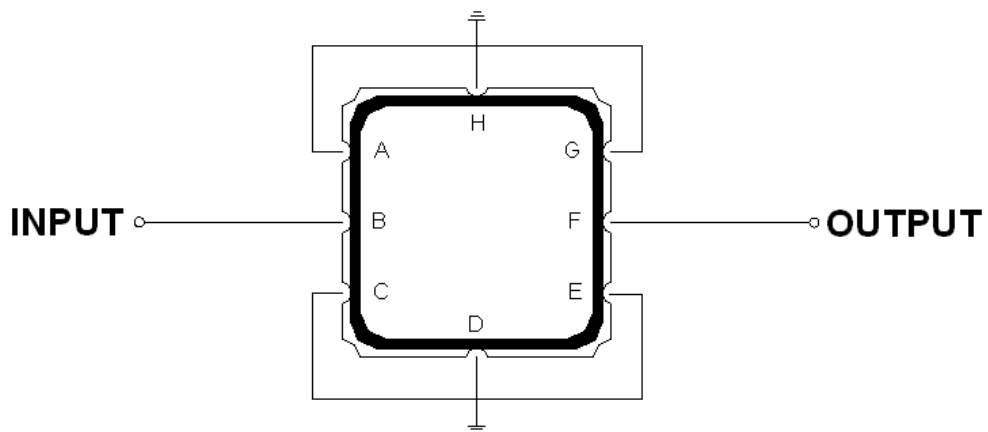
Package Dimensions



Marking Descriptions	
X	Wireless Application
x	Series Number
a	Date Code(Year)
b	Date Code(Month)

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

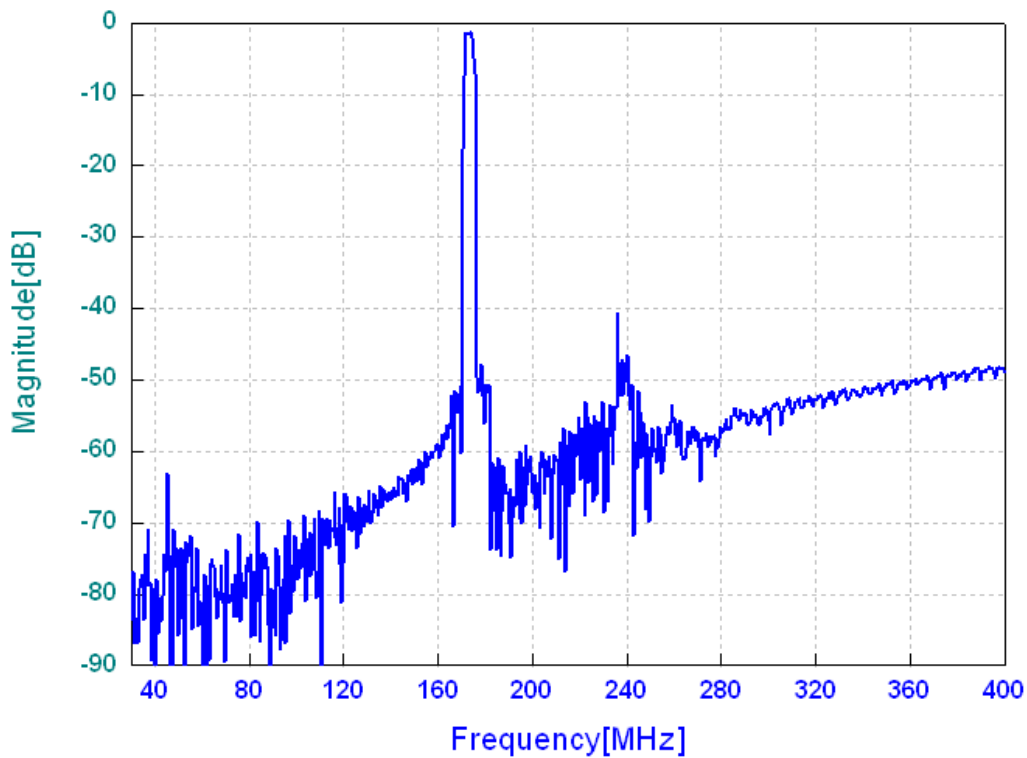
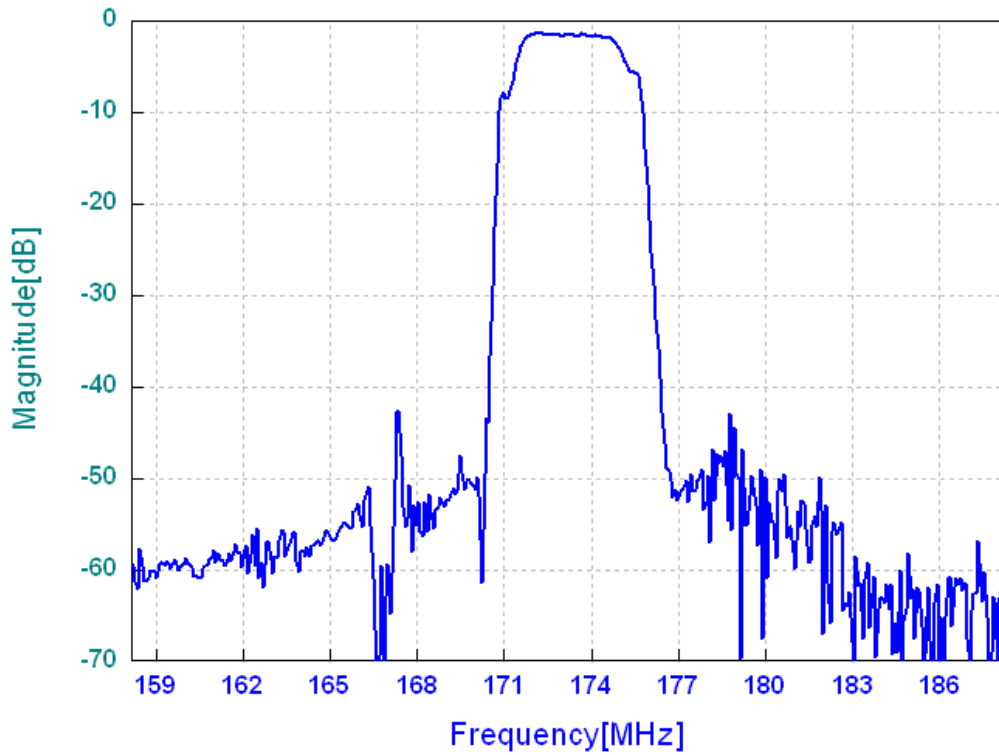
Testing Environment



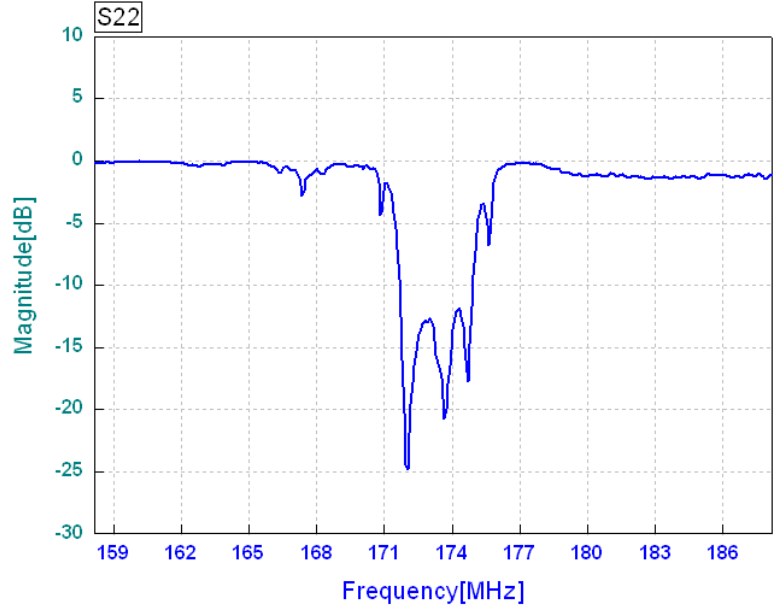
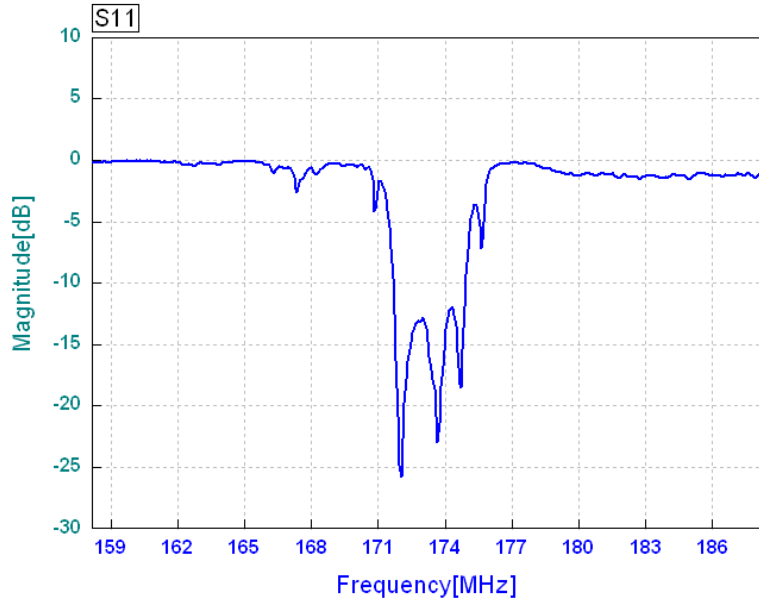
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



Return Loss



Smith Chart

