



*Total Solution Provider in Saw Device*

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# SA454EM1

CDMA 450 A+C-Band, Balanced RF-Tx SAW Filter  
Revision 0: October 2008



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

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## □ Electrical Characteristics

### Maximum Ratings

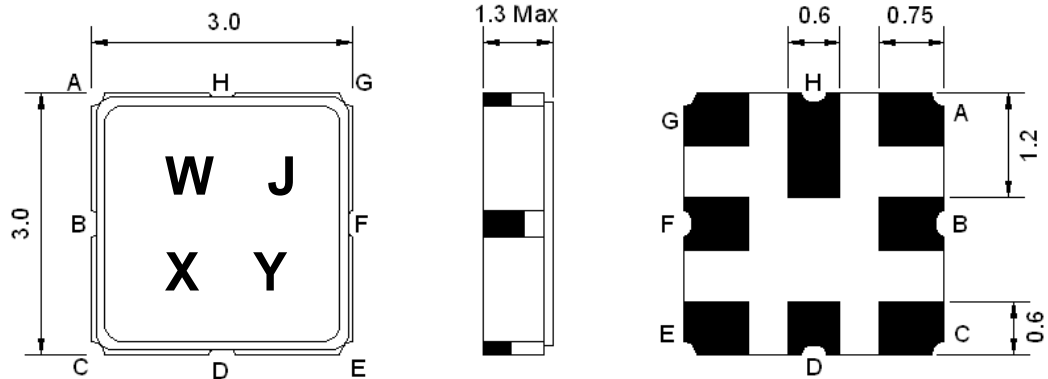
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	0
Source Impedance (balanced ended) <sup>(1)</sup>	Ω	-	100	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	M1			
Length x Width	mm <sup>2</sup>	-	3.0 x 3.0	-
Height	mm	-	-	1.3

### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	453.75	-
Insertion Loss in 450.0 ~457.5 MHz	dB	-	1.9	3.0
<b>Stop Band Attenuation:</b>				
0.3 ~ 420.0 MHz	dB	45	55	-
420.0 ~ 440.0 MHz	dB	40	50	-
462.5 ~ 467.5 MHz	dB	6	15	-
467.5 ~ 480.0 MHz	dB	30	34	-
480.0 ~ 2000.0 MHz	dB	35	45	-
VSWR in 450.0 ~ 457.5 MHz	-	-	2.0	2.5

**Notes :** (1) No Matching Network .

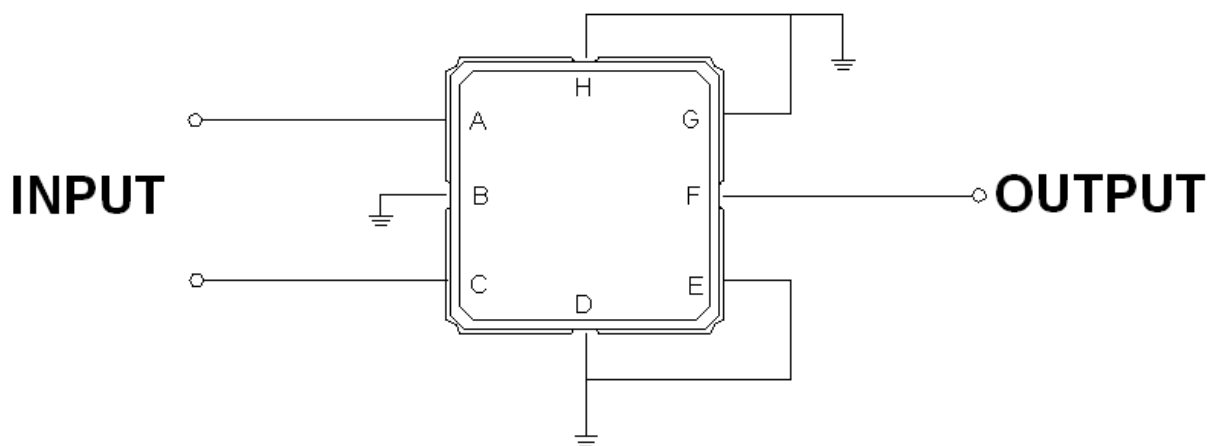
**Package Dimensions**



Marking Descriptions	
W	CDMA450 Application
J	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

**Testing Environment**

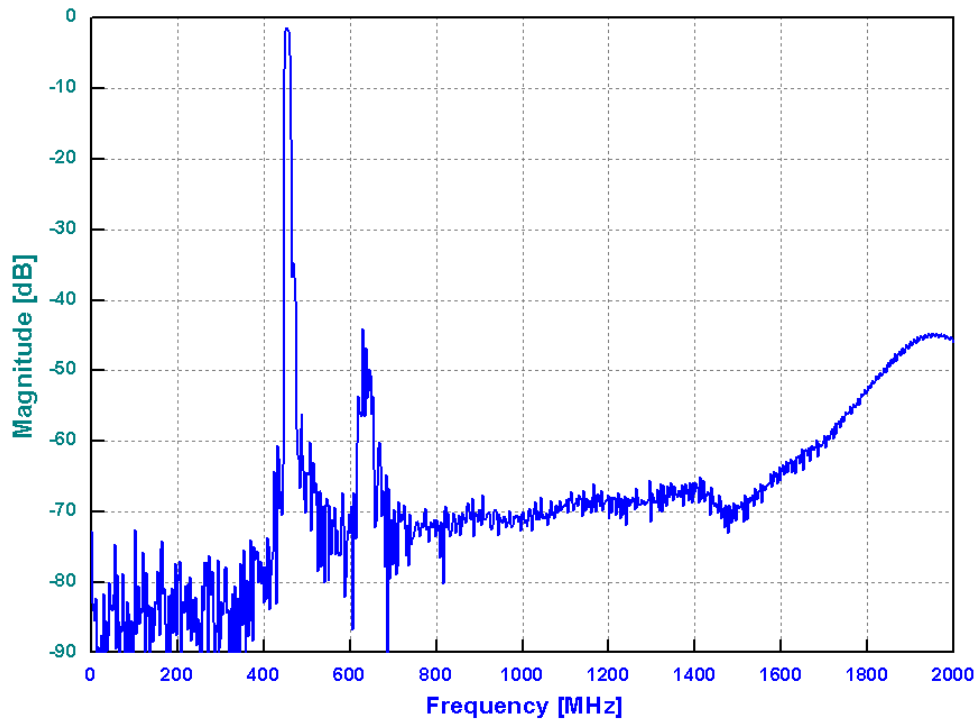
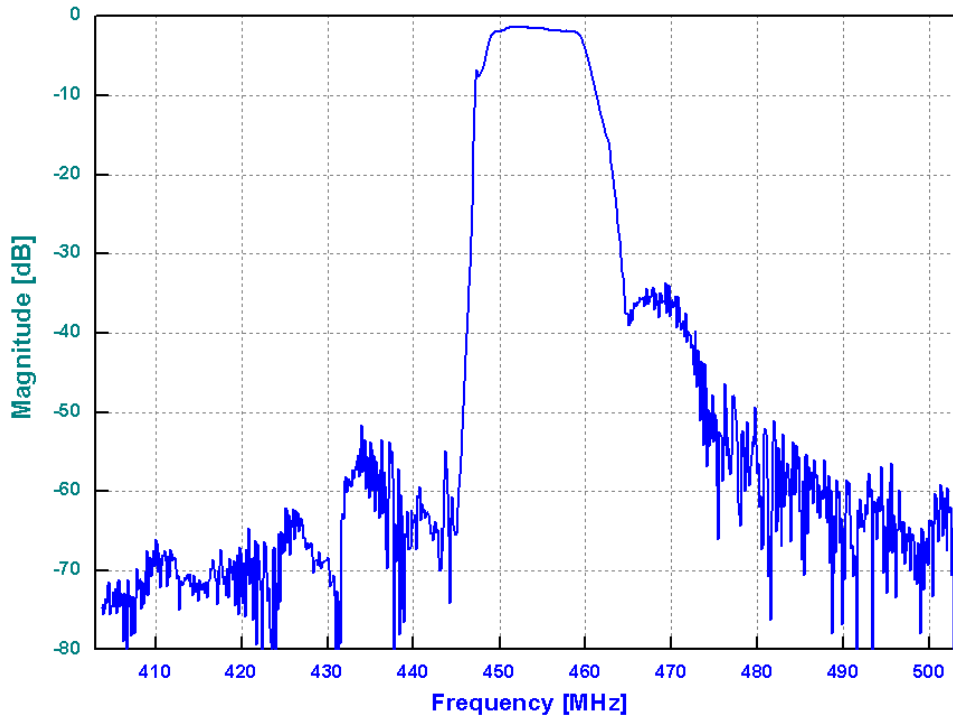


Source Impedance: 100 Ω

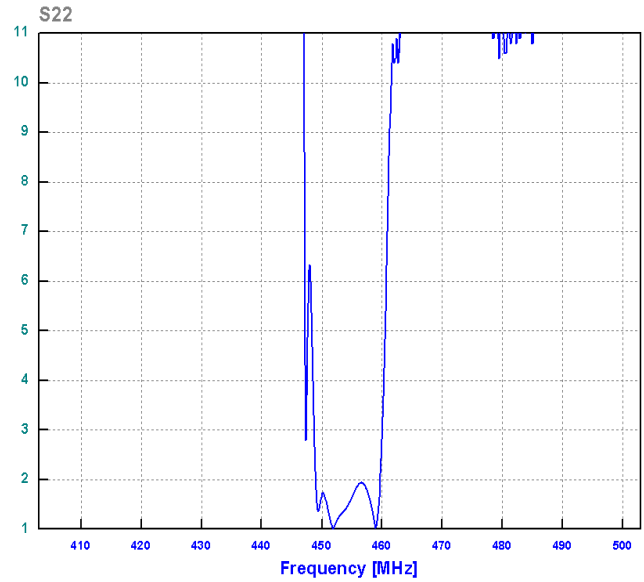
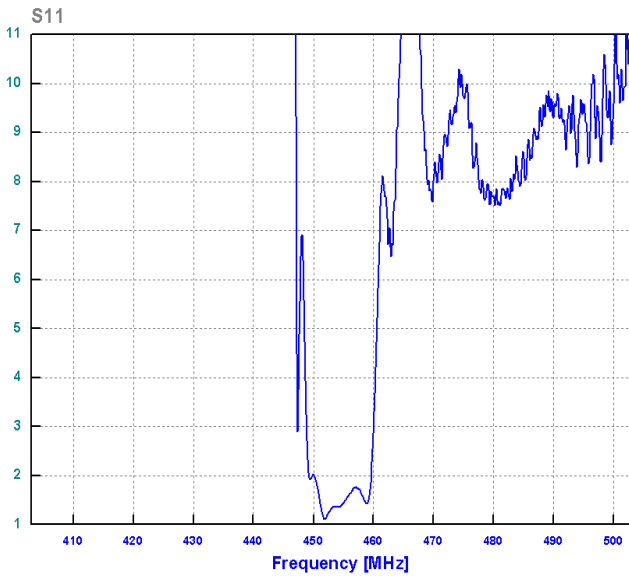
Load Impedance: 50 Ω

**□ Frequency Characteristics**

Frequency Response



**VSWR**



**Smith Chart**

