



*Total Solution Provider in Saw Device*

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# SA413AM

CDMA 450 D-Band, RF-Tx SAW Filter  
Revision 0: November 2006

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

### Maximum Ratings

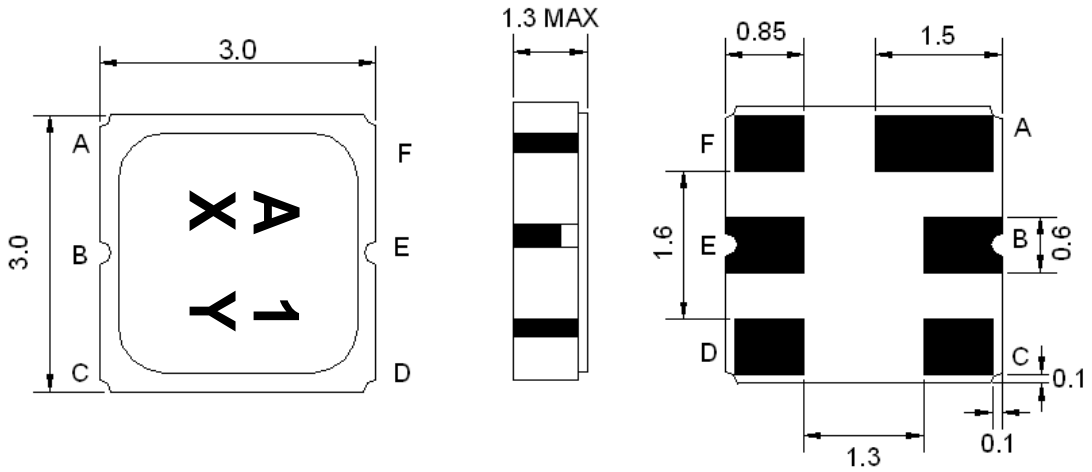
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	30
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	M			
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	-	413.7	-
Insertion Loss in 411.6 ~415.9 MHz	dB	-	2.1	2.8
<b>Stop Band Attenuation:</b>				
0.3 ~ 400.0 MHz	dB	23	26	-
421.6 ~ 425.9 MHz	dB	30	48	-
425.9 ~ 1700.0 MHz	dB	23	27	-
1700.0 ~ 2000.0 MHz	dB	15	22	-
VSWR in 411.6 ~ 415.9 MHz	-	-	1.3	2.0

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

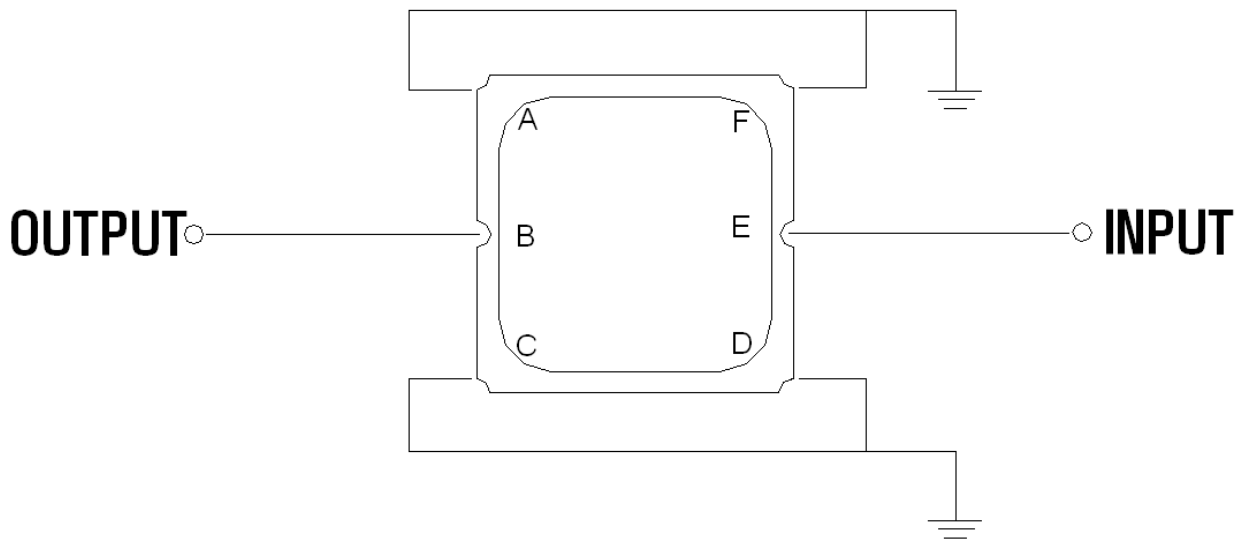
**Package Dimensions**



Marking Descriptions	
A	CDMA450 Application
1	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

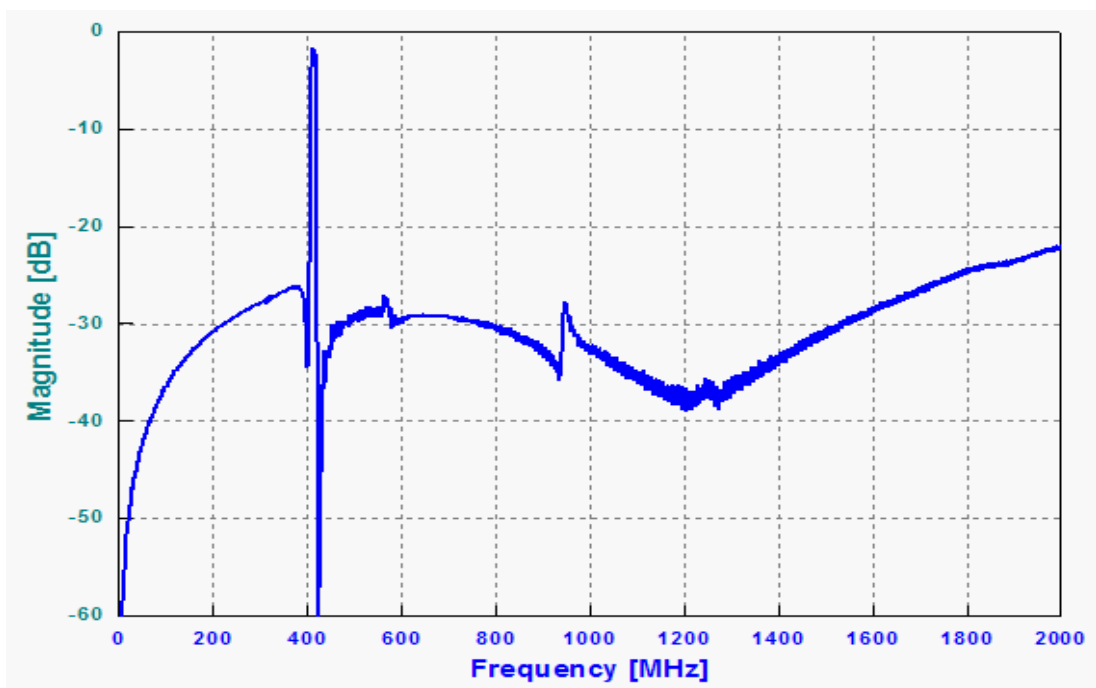
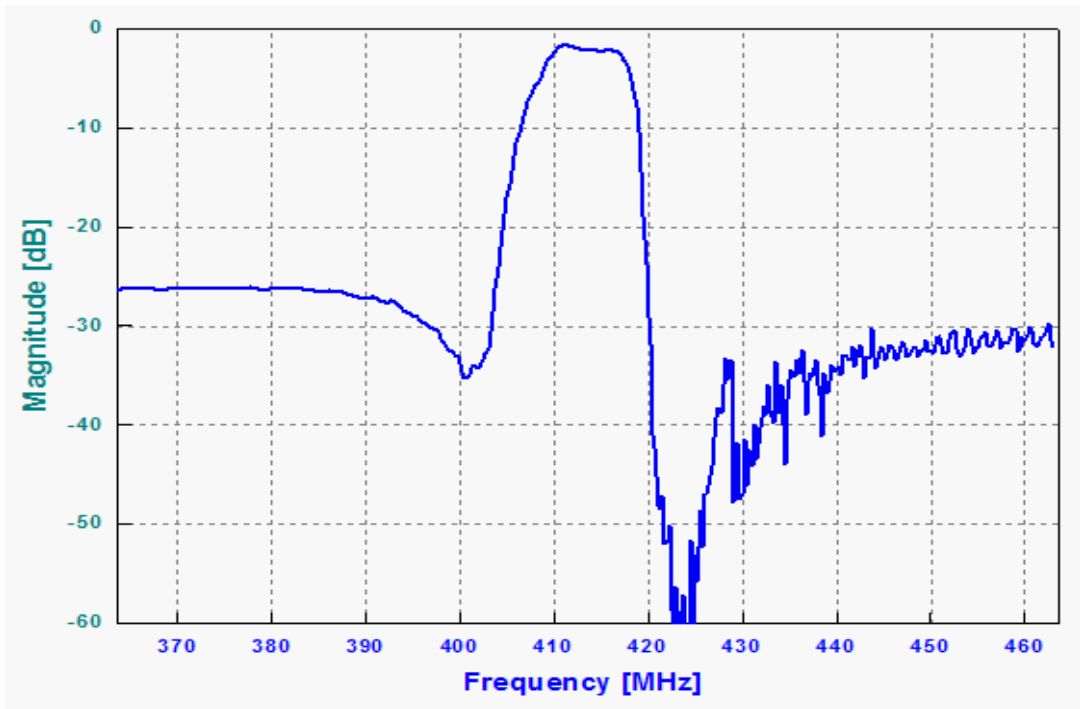
**Testing Environment**



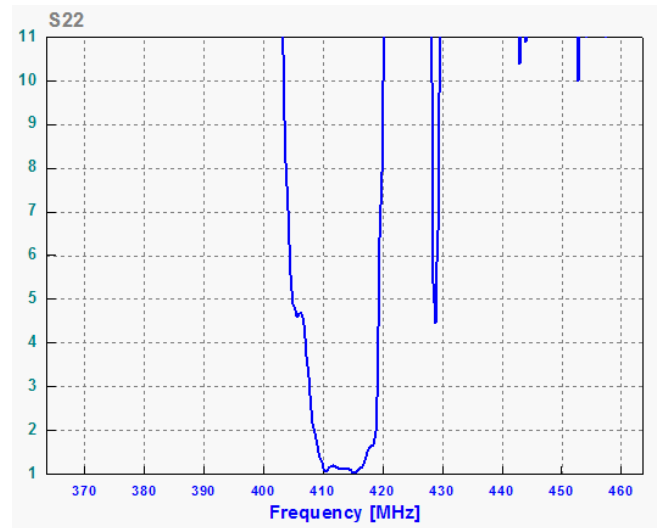
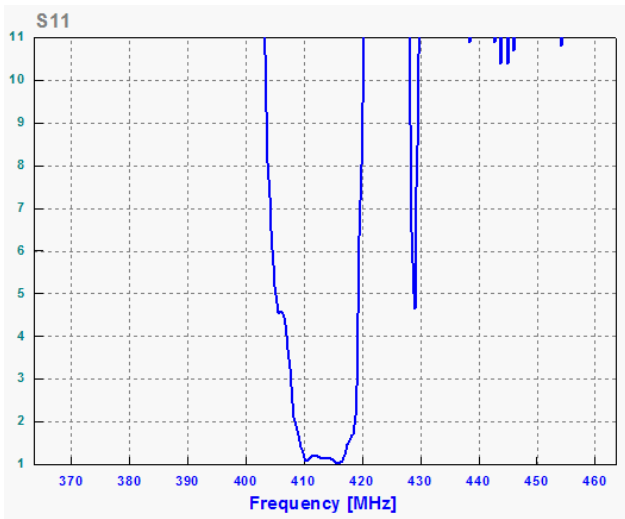
Source & Load Impedance: 50 Ω

**□ Frequency Characteristics**

Frequency Response



**VSWR**



**Smith Chart**

