



*Total Solution Provider in Saw Device*

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# SA453BM2

CDMA450 H-Band, RF-Tx SAW Filter  
Revision 0: April 2007



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

### Maximum Ratings

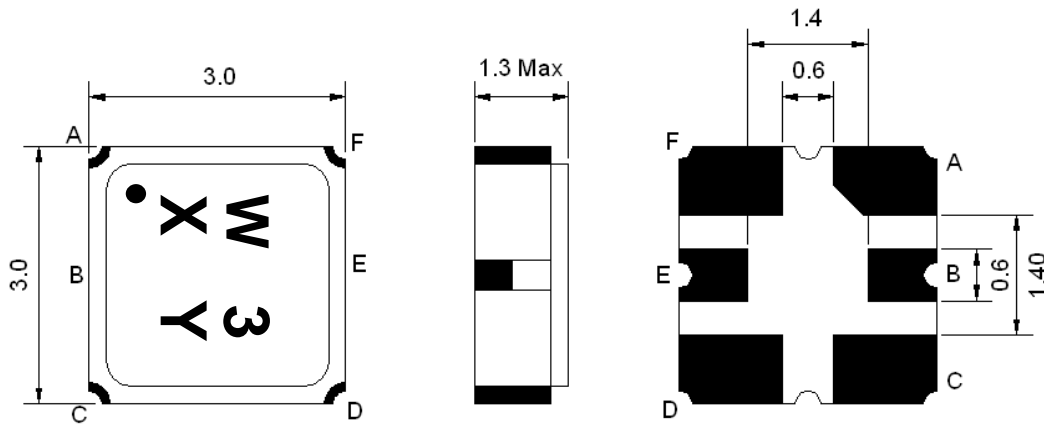
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-	-	-
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	31
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type&size			M2	
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	-	453.65	-
Insertion Loss within 451.3 ~456.0 MHz	dB	-	1.5	2.8
<b>Stop Band Attenuation:</b>				
D.C. ~ 350.0 MHz	dB	30	33	-
350.0 ~ 440.0 MHz	dB	25	30	-
461.3 ~ 462.3 MHz	dB	35	45	-
462.3 ~ 464.5 MHz	dB	40	50	-
464.5 ~ 466.0 MHz	dB	35	45	-
466.0 ~ 850.0 MHz	dB	30	35	-
850.0 ~ 950.0 MHz	dB	28	33	-
950.0 ~ 1500.0 MHz	dB	25	33	-
1500.0 ~ 2100.0 MHz	dB	10	35	-
VSWR within 451.3 ~ 456.0 MHz	-	-	1.6	2.0

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

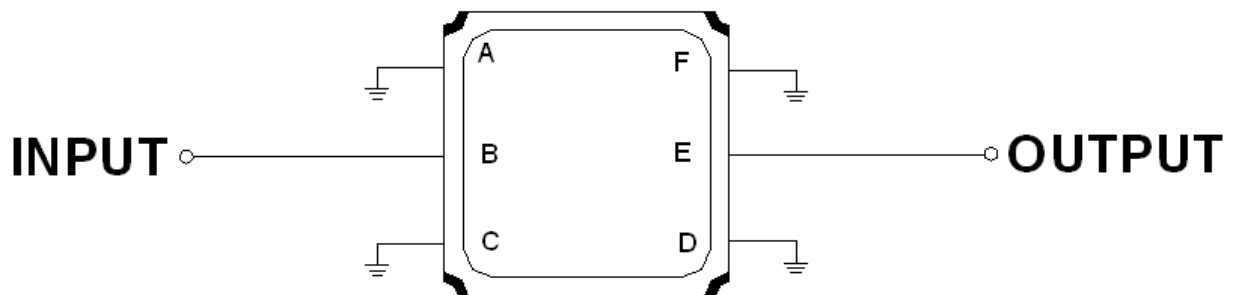
**Package Dimensions**



Marking Descriptions	
W	CDMA450 Application
3	Series Number
X	Date Code(Year)
Y	Date Code(Month)
●	Index mark

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

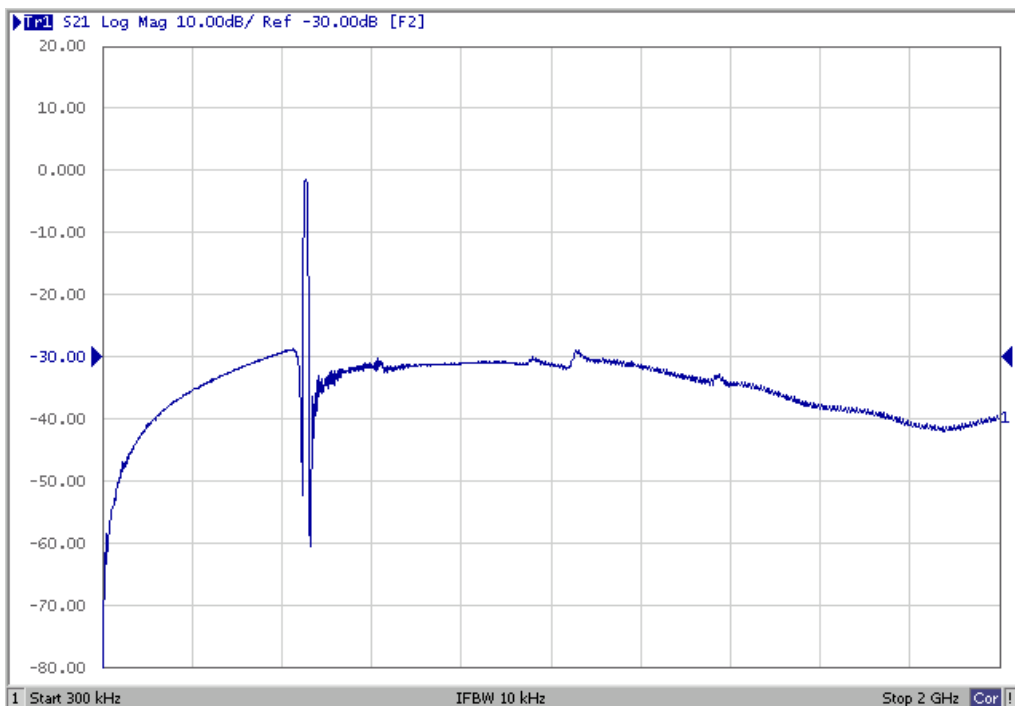
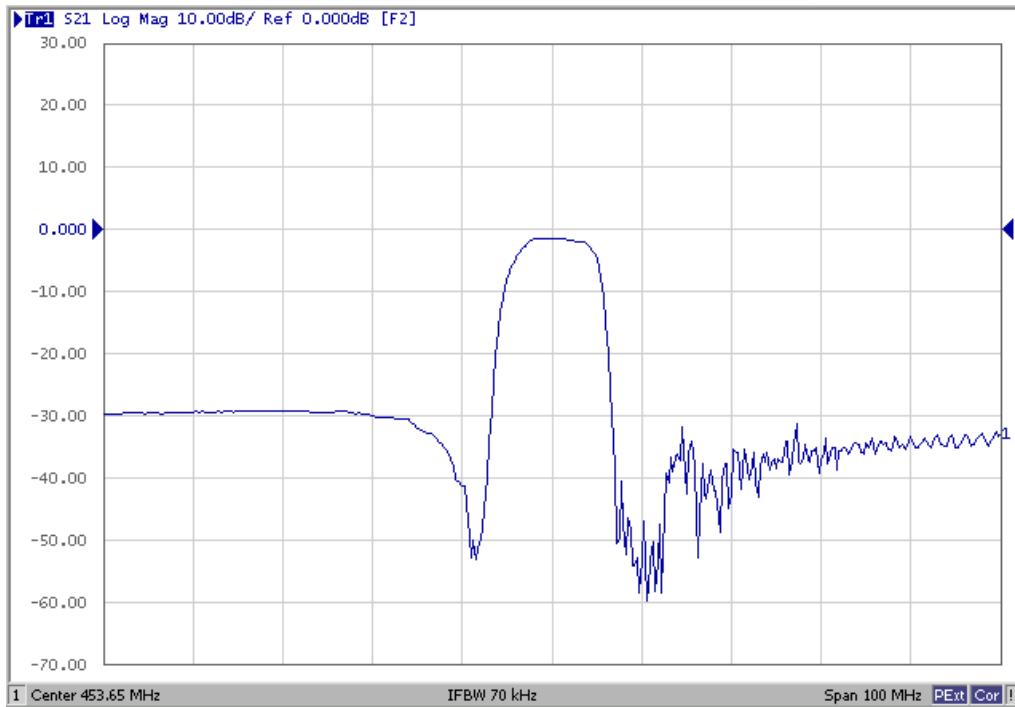
**Testing Environment**



Source & Load Impedance: 50 Ω

**□ Frequency Characteristics**

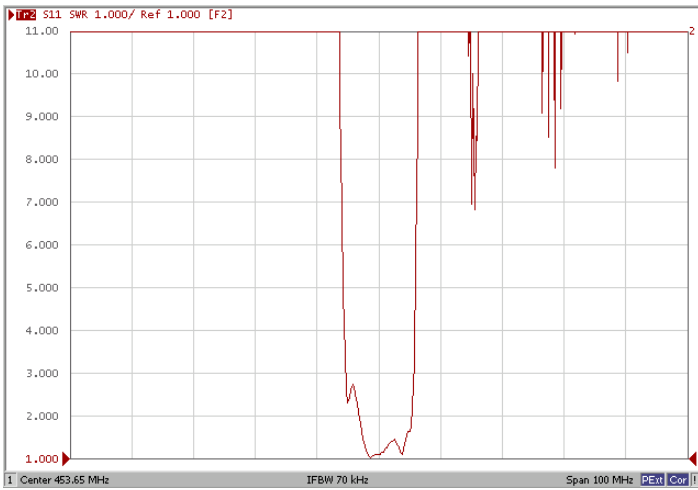
**Frequency Response**



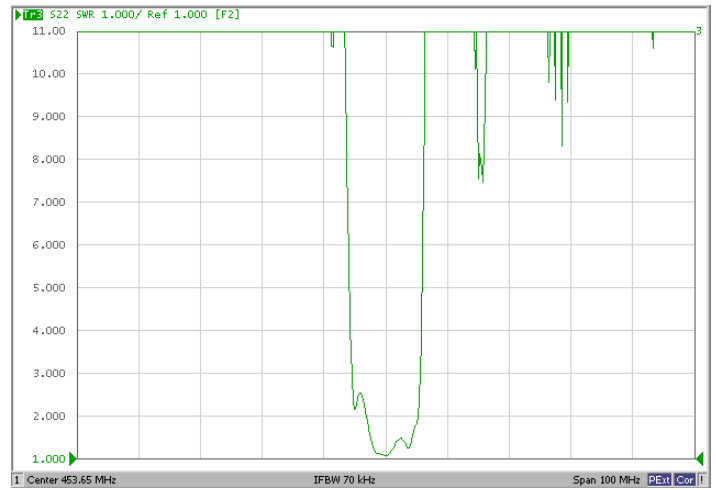


VSWR

S11

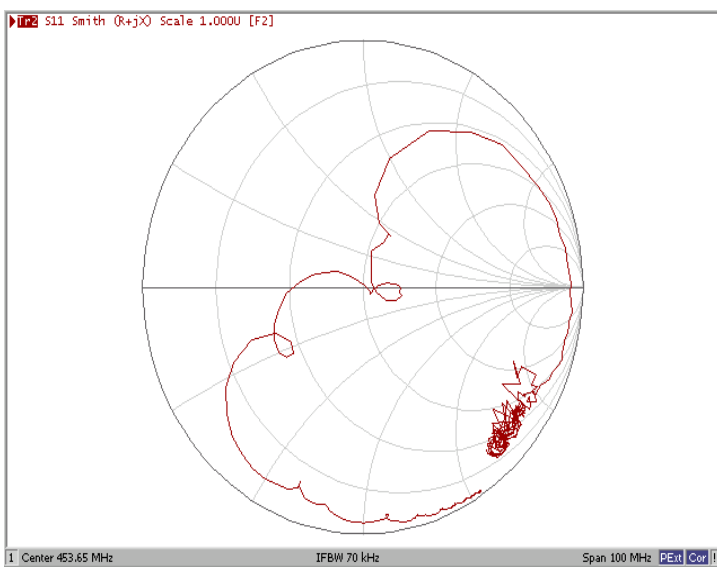


S22



Smith Chart

S11



S22

