

# SD8388AC1

CDMA SAW Duplexer  
Revision 1: November, 2007



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-



**Electrical Characteristics**

**Maximum Ratings**

ITEM	UNIT	MIN.	TYP.	MAX.
Operation Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	10		
Ant. Tx. Rx Terminating Impedance	Ω	Ant, Tx, Rx : 50 Ω		
Package type	C1			
Length x Width	mm <sup>2</sup>	3.8 x 3.8		
Height	mm	-	-	1.45

**Electrical Specification**

Tx_836.5MHz		SPECIFICATIONS			
ITEM	CONDITION [MHz]	Unit	Min.	Typ.	Max.
Insertion Loss	824 ~ 849	dB	-	2.1	2.7
Ripple	824 ~ 849	dB <sub>p-p</sub>	-	0.5	1.0
VSWR	824 ~ 849	-	-	2.5	3.2
Absolute Attenuation	859	dB	4	9	-
	869 ~ 894	dB	45	50	-
	1570 ~ 1580	dB	20	25	-
	2300 ~ 2500	dB	4	8	-
Rx_881.5MHz		SPECIFICATIONS			
ITEM	CONDITION [MHz]	Unit	Min.	Typ.	Max.
Insertion Loss	869 ~ 894	dB	-	2.5	3.0
Ripple	869 ~ 894	dB <sub>p-p</sub>	-	1.0	1.5
VSWR	869 ~ 894	-	-	2.0	2.5
Absolute Attenuation	824 ~ 849	dB	50	57	-
	859	dB	4	13	-
	1570 ~ 1580	dB	40	50	-
	2300 ~2500	dB	40	50	-



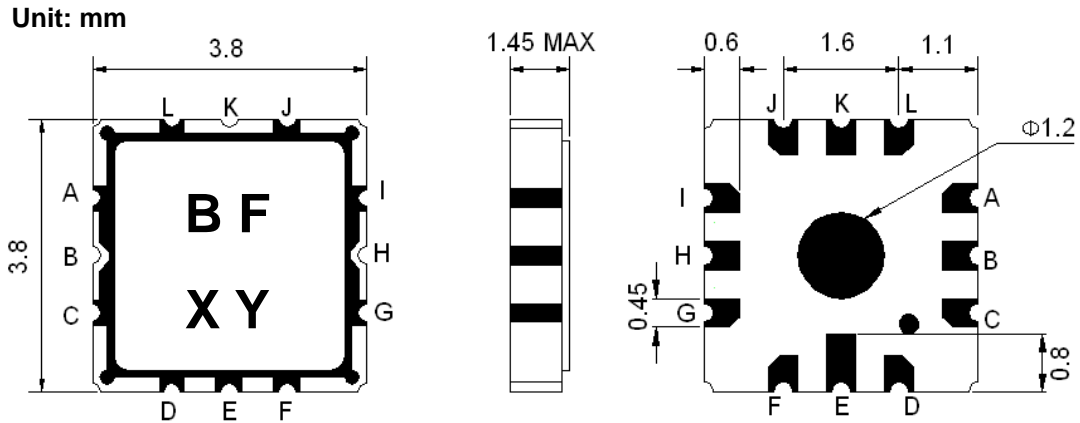
SD8388AC1

SAW Duplexer for CDMA

Rx → Tx		SPECIFICATIONS			
ITEM	CONDITION [MHz]	Unit	Min.	Typ.	Max.
Isolation	824 ~ 849	dB	50	55	-
	869 ~ 894	dB	43	48	-
	1570 ~ 1580	dB	45	55	

\*Note : Including losses due to Test PCB(0.3dB)

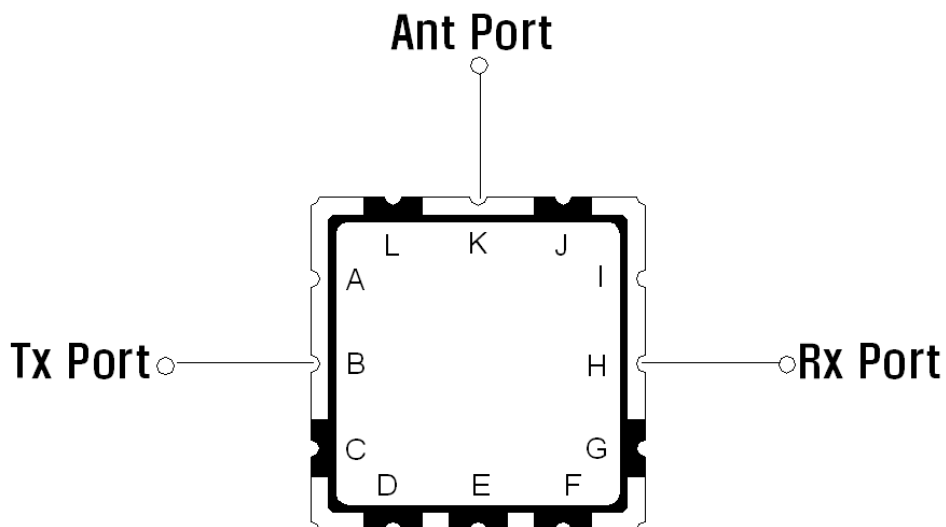
**□ Package Dimensions**



Marking Descriptions	
B	CDMA800 Application
F	SAW Duplexer
X	Date Code(Year)
Y	Date Code(Month)

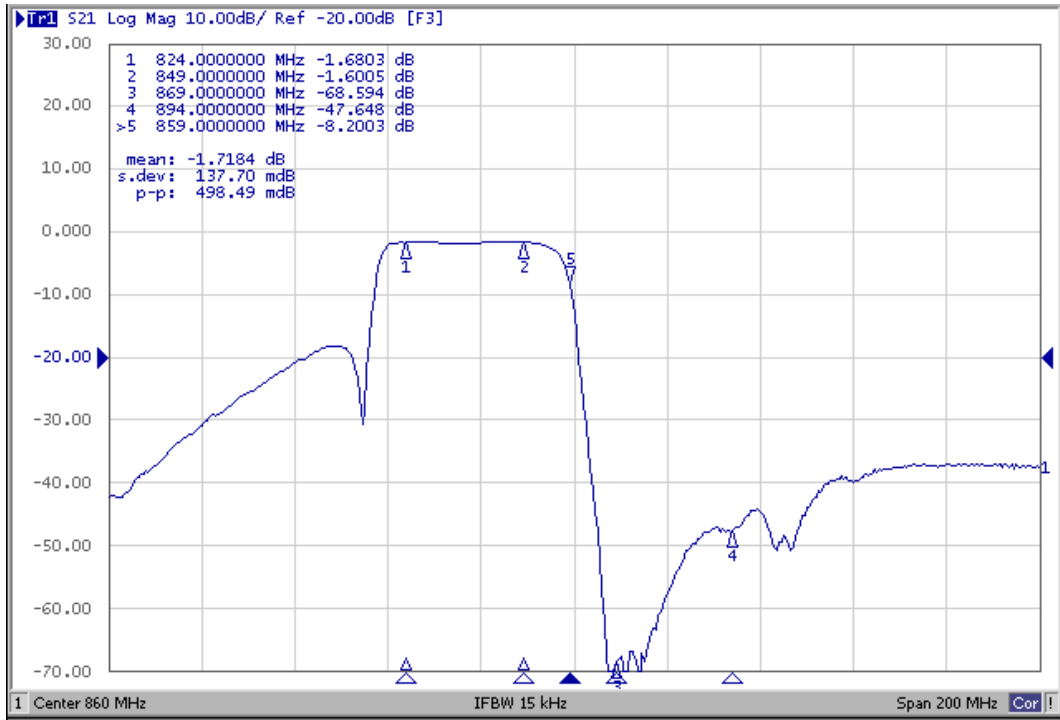
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
H	Rx Port(881.5MHz)
K	Antenna
B	Tx Port (836.5MHz)

**□ Testing Environment**

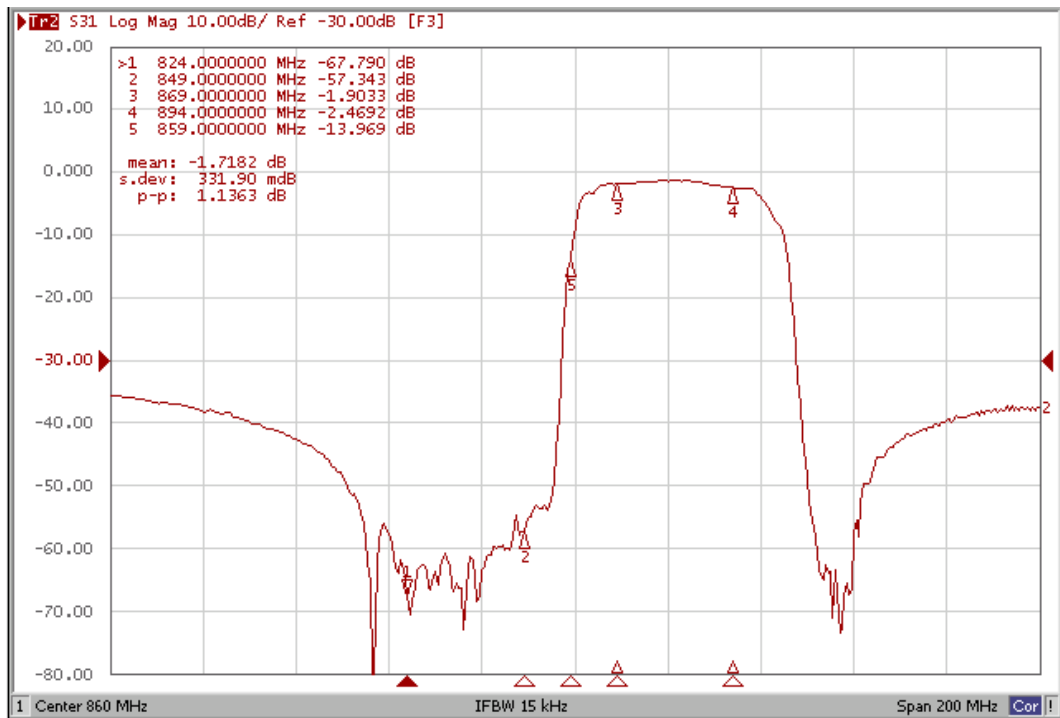


### □ Frequency Characteristics

#### Tx Characteristic

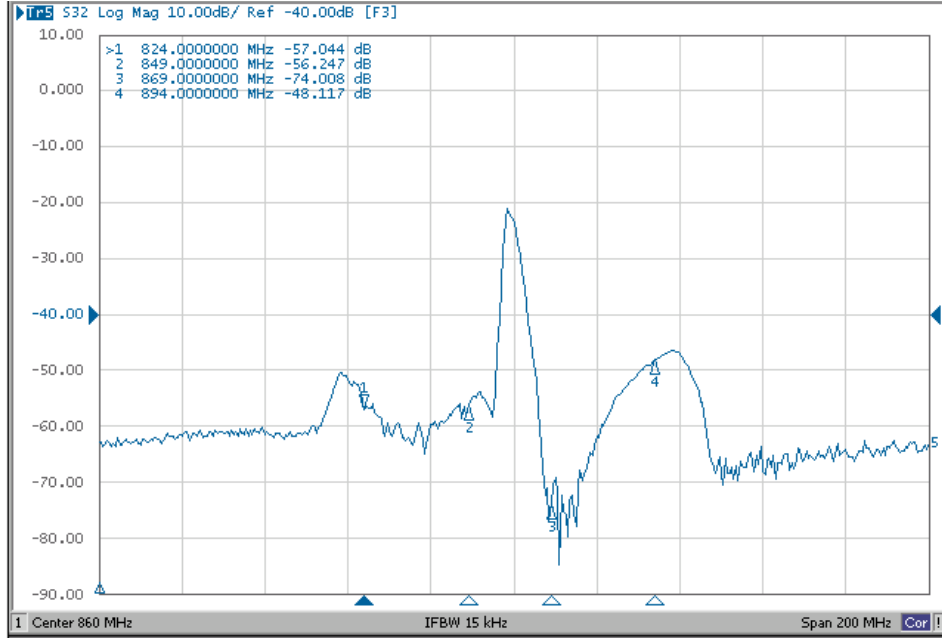


#### Rx Characteristic





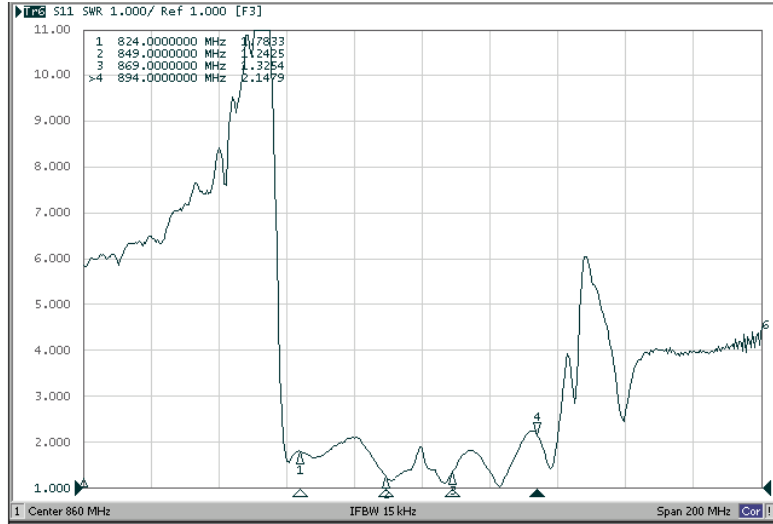
Isolation Characteristic



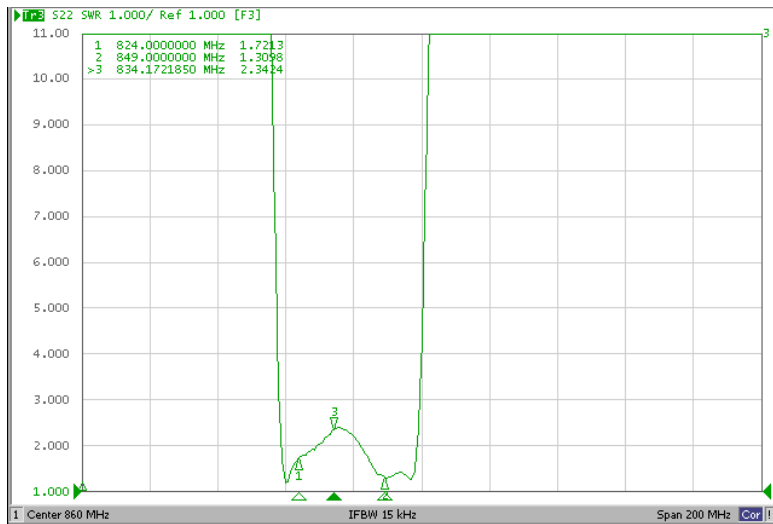


### VSWR

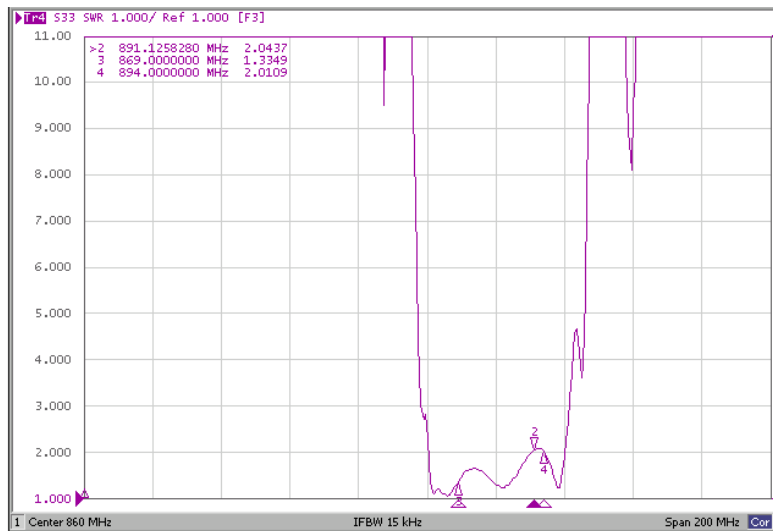
Ant



Tx

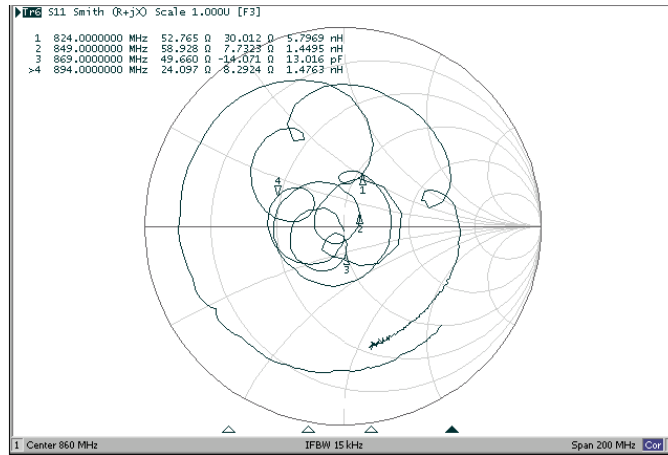


Rx

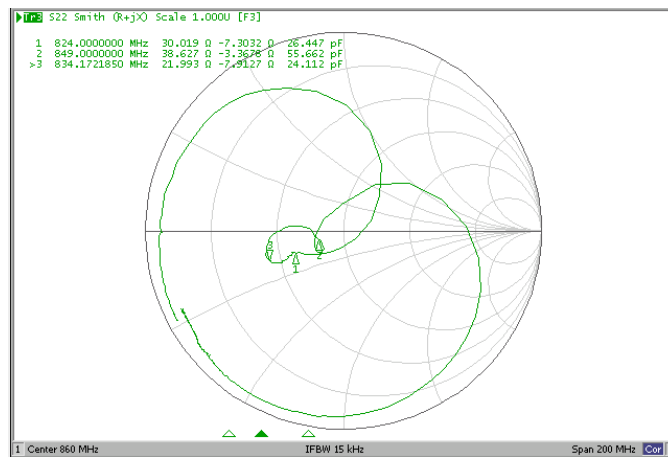


### Smith Chart

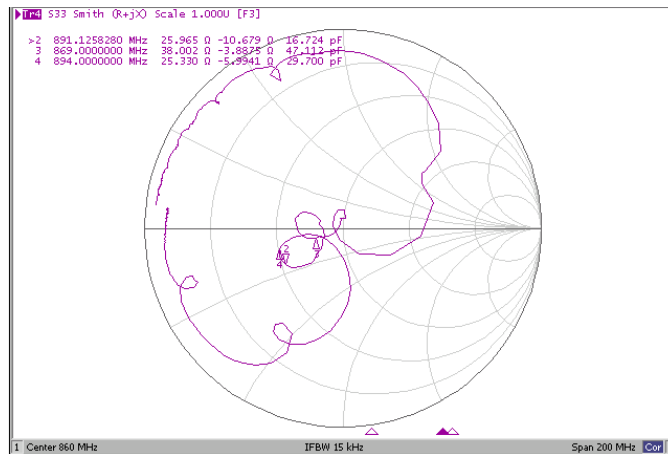
Ant



Tx



Rx







### Wide Span

