SD8388BC1

CDMA SAW Duplexer
Revision 1: November, 2008

RoHS compliance
Pb free

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

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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	0		
Maximum Input Power	W	1.2W > 50000 Hours, CW tone(Ta= +50°C)		
Ant. Tx. Rx Terminating Impedance	Ω	Ant, Tx, Rx : 50 Ω		
Package type		C1		
Length x Width	mm²	3.8 x 3.8		
Height	mm	-	-	1.45

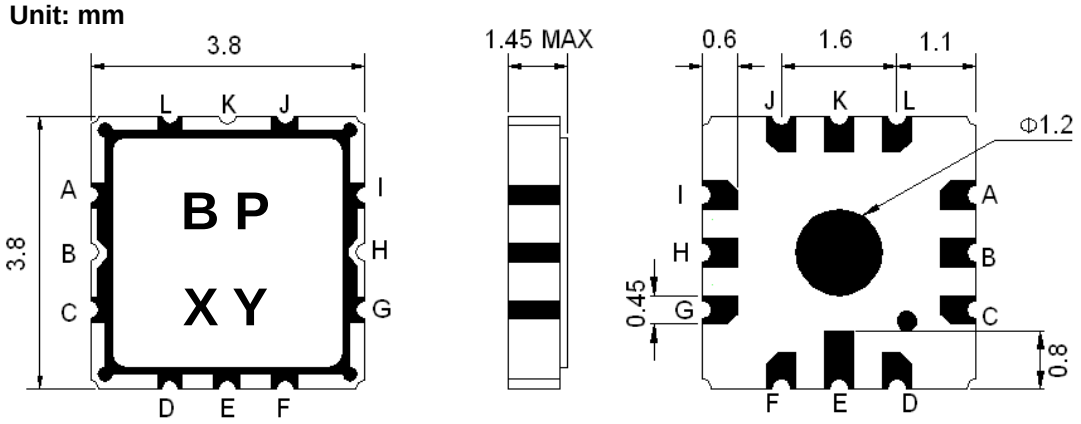
Electrical Specification

Tx_836.5MHz		**SPECIFICATIONS**			
ITEM	CONDITION [MHz]	Unit	Min.	Typ.	Max.
Insertion Loss	824 ~ 849	dB	-	1.5	2.2
Ripple	824 ~ 849	dB_{p-p}	-	0.4	1.0
VSWR	824 ~ 849	-	-	1.9	2.4
Absolute Attenuation	859	dB	4	9	-
	869 ~ 894	dB	45	50	-
Rx_881.5MHz		**SPECIFICATIONS**			
ITEM	CONDITION [MHz]	Unit	Min.	Typ.	Max.
Insertion Loss	869 ~ 894	dB	-	2.0	3.0
Ripple	869 ~ 894	dB_{p-p}	-	0.8	1.5
VSWR	869 ~ 894	-	-	1.7	2.2
Absolute Attenuation	824 ~ 849	dB	50	58	-
	859	dB	4	13	-
Rx → Tx		**SPECIFICATIONS**			
ITEM	CONDITION [MHz]	Unit	Min.	Typ.	Max.
Isolation	824 ~ 849	dB	50	55	-
	869 ~ 894	dB	48	53	

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

❒ Package Dimensions

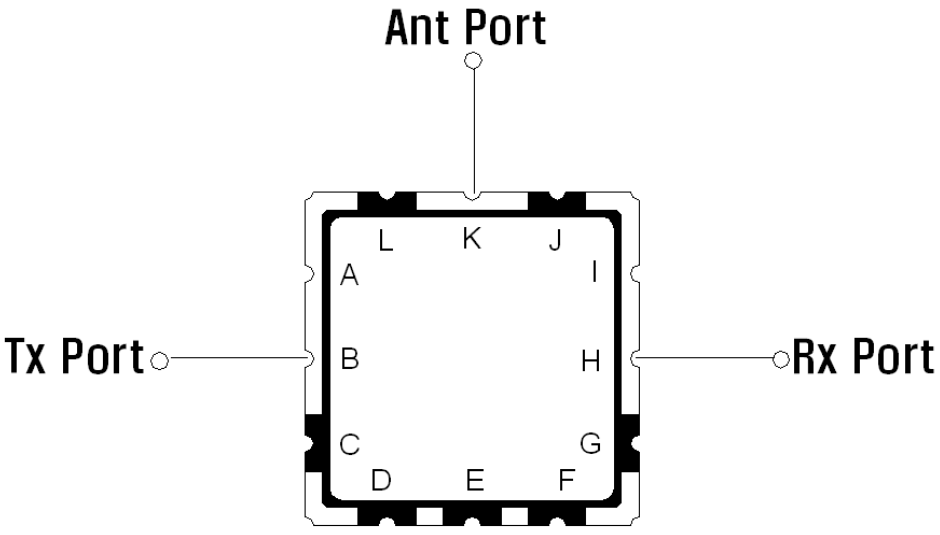
Unit: mm



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

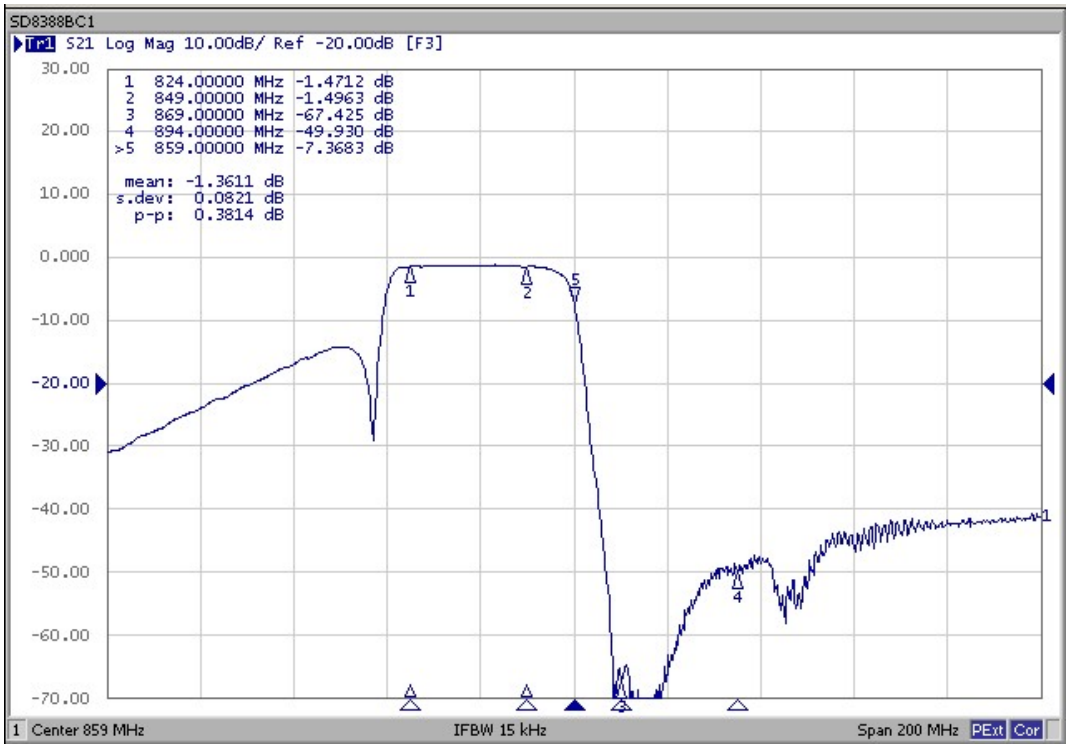
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
H	Rx Port(881.5MHz)
K	Antenna
B	Tx Port (836.5MHz)

❒ Testing Environment

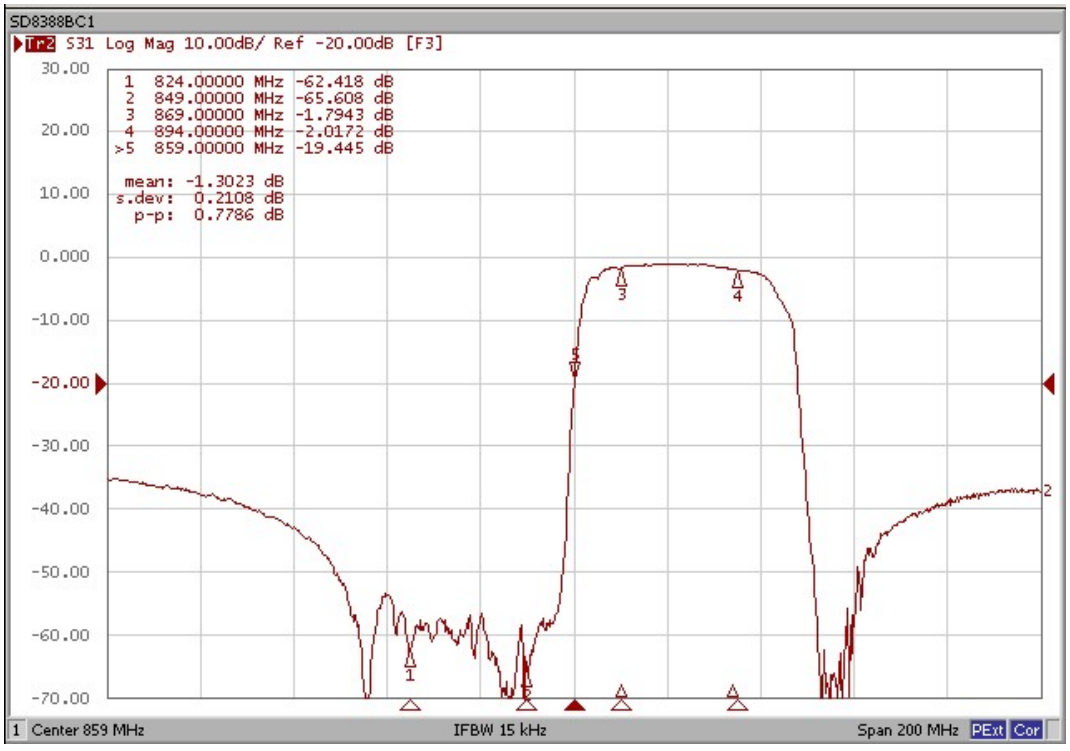


❒ Frequency Characteristics

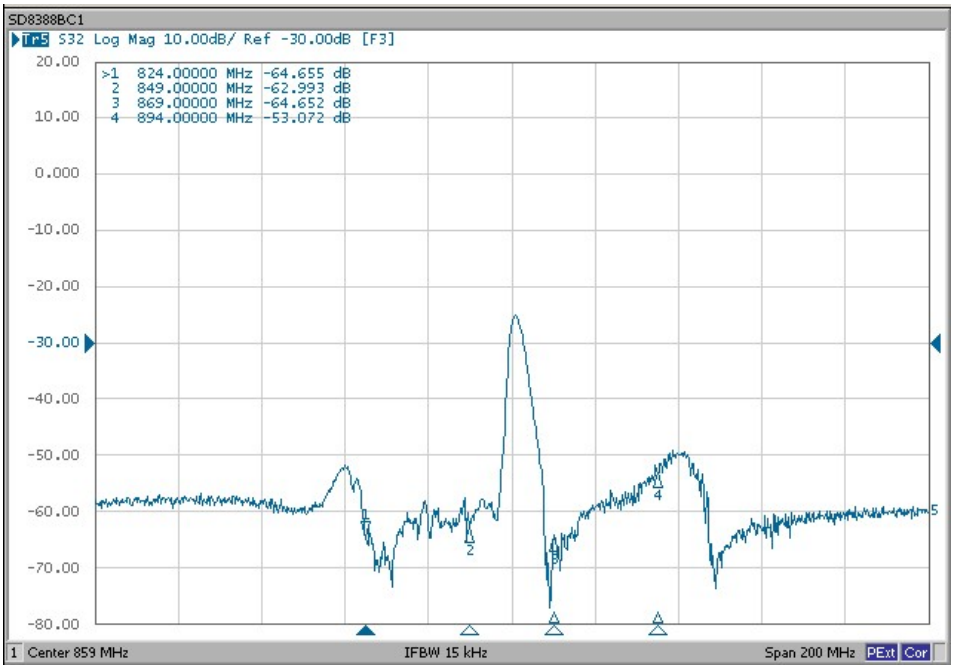
Tx Characteristic



Rx Characteristic



Isolation Characteristic



VSWR & Smith Chart