

- WCDMA SAW Duplexer
- Revision 0: August 2007

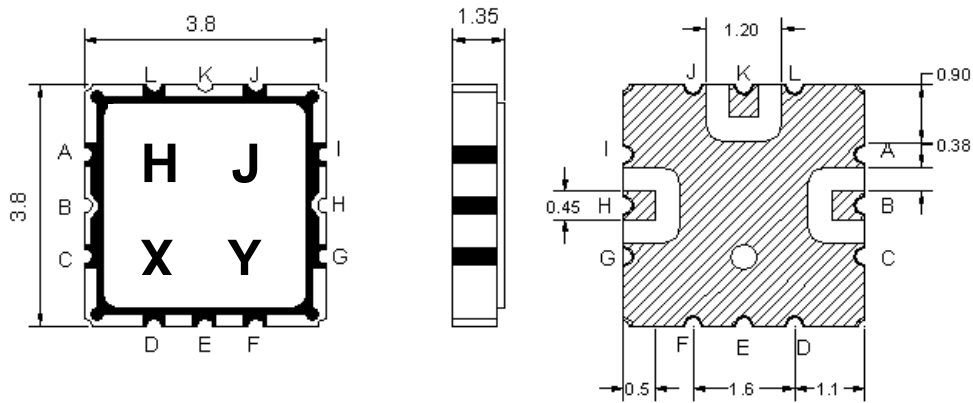
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-20	-	+75
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	0	-
Input Power	dBm	28dBm> 50000 Hours, CW tone(Ta= +55°C)		
Input Power Max – Other than LowFreq. band	dBm	-	10	-
Ant. LowFreq, HighFreq. Terminating Impedance	Ω	-	50	-
Package type & size	P8			
Length x Width	mm ²	-	3.8 x 3.8	-
Height	mm	-	1.35	-

ELECTRICAL SPECIFICATION					
PARAMETERS	CONDITION [MHZ]	UNIT	MINIMUM	TYPICAL	MAXIMUM
Rx_1970MHz		Specifications			
Insertion Loss	1960 ~ 1980	dB	-	2.4	3.0
Ripple	1960 ~ 1980	dBp-p	-	0.4	1.0
Return Loss	1960 ~ 1980	dB	10	14	-
Absolute Attenuation	D.C ~ 900	dB	50	60	-
	1570 ~ 1580	dB	30	42	-
	2090	dB	45	50	-
	2150 ~ 2170	dB	45	50	-
	2300 ~ 2500	dB	20	30	-
Tx_2160MHz		Specifications			
Insertion Loss	2150 ~ 2170	dB	-	2.6	3.0
Ripple	2150 ~ 2170	dBp-p	-	0.3	1.0
Return Loss	2150 ~ 2170	dB	10	16	-
Absolute Attenuation	D.C ~ 900	dB	55	67	-
	1570 ~ 1580	dB	35	45	-
	1960 ~ 1980	dB	45	49	-
	2090	dB	20	29	-
	2300 ~ 2500	dB	40	50	-
Rx → Tx		Specifications			
Isolation	1960 ~ 1980	dB	45	54	-
	2150 ~ 2170	dB	40	46	-

Notes : Including PCB Losses

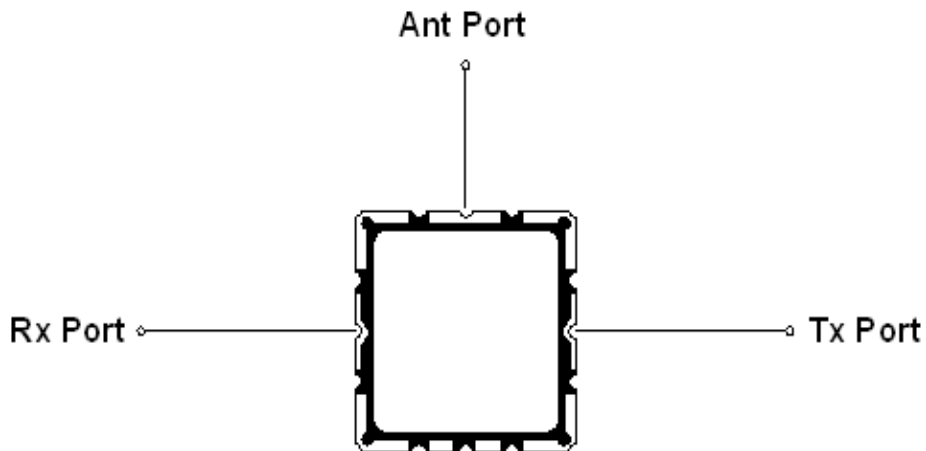
Package Dimensions



Marking Descriptions	
H	Application(WCDMA)
J	Series(TD1921BP8)
X	Date Code (Year)
Y	Date Code (Month)

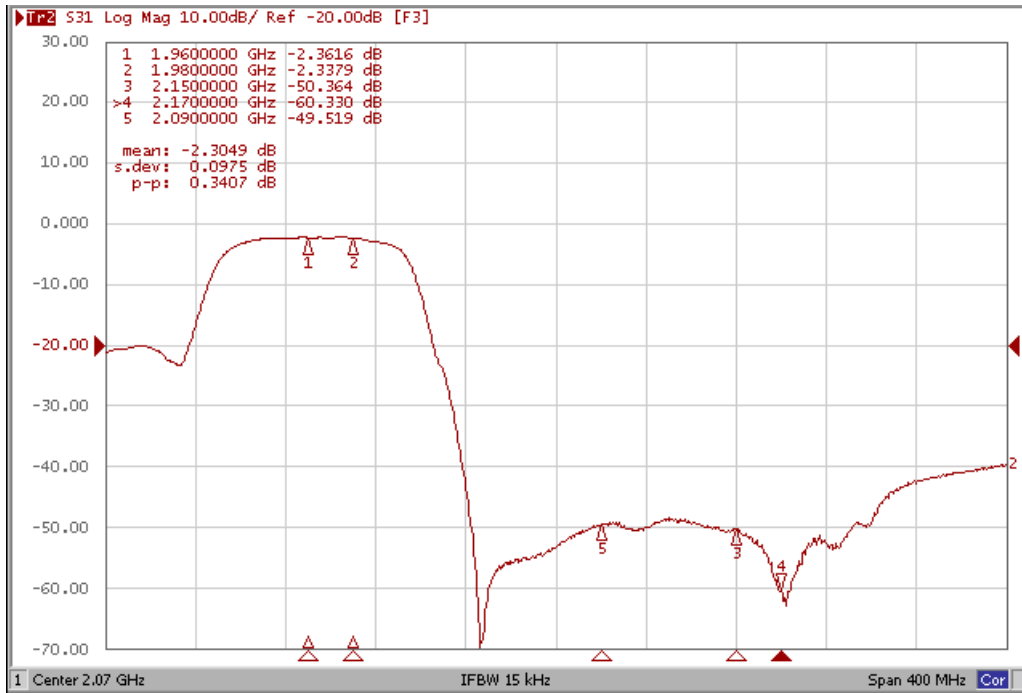
Pin Description	
A, C, D, E, F, G, I, J, L	GND
B	Rx Port(1970MHz)
K	Ant Port
H	Tx Port(2160MHz)

Testing Environment

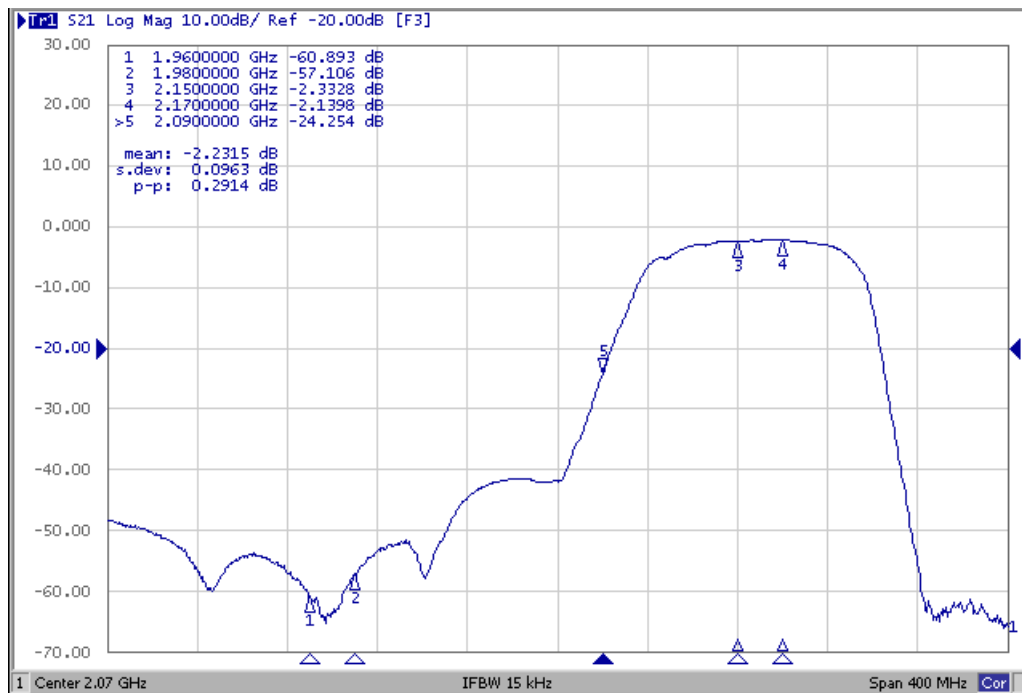


Frequency Characteristics

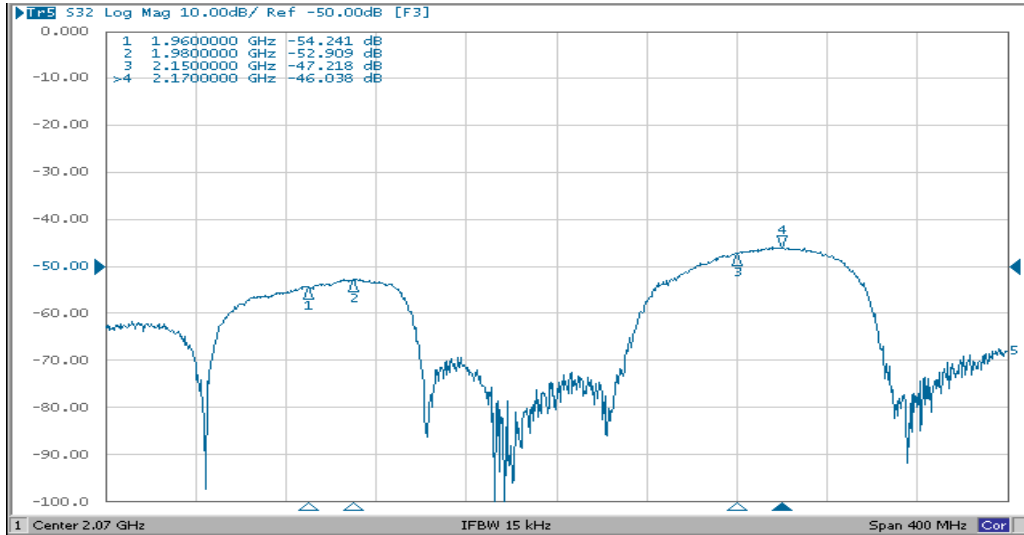
Ant to Rx Characteristic



Tx to Ant Characteristic

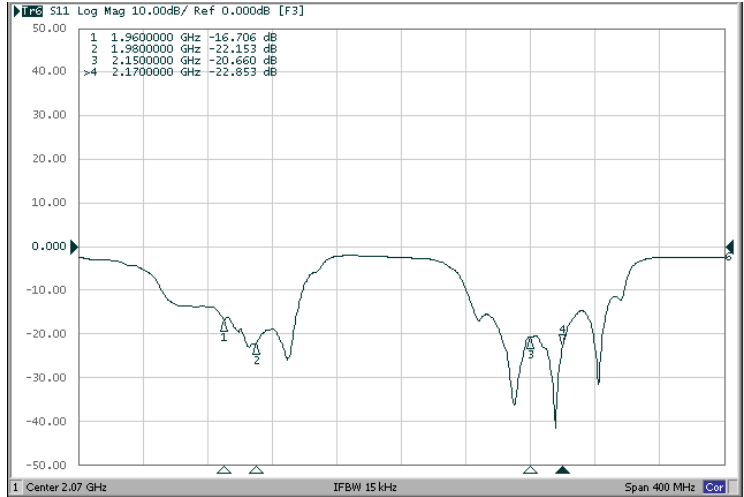


Isolation Characteristic

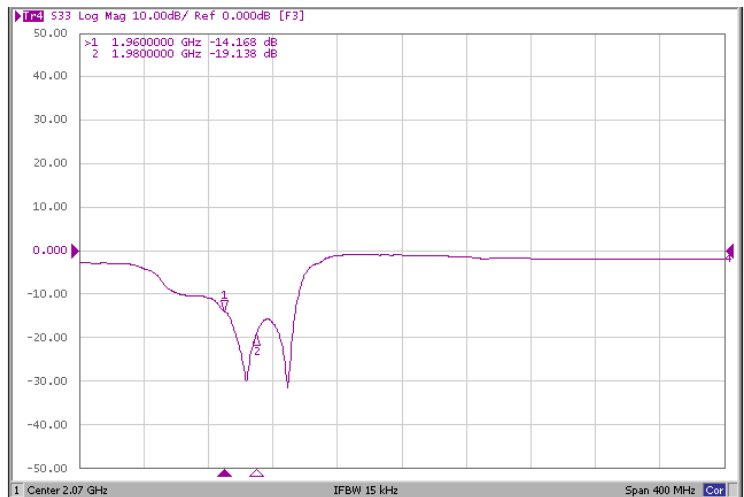


Return Loss Characteristic

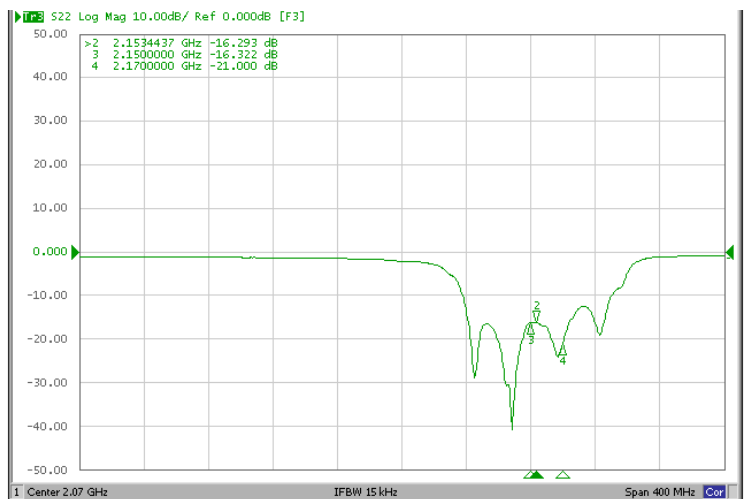
Ant



Rx

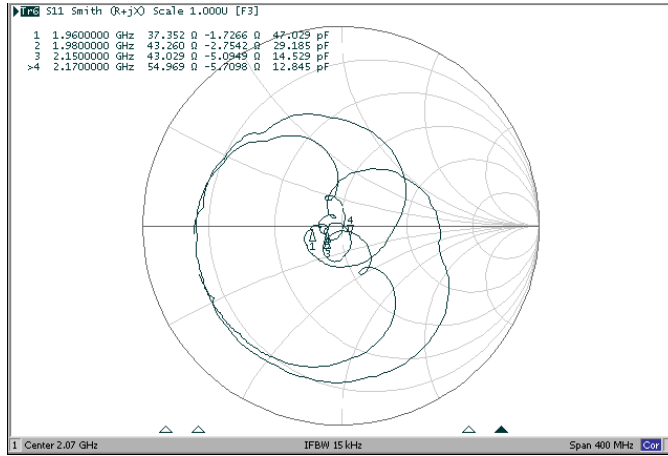


Tx

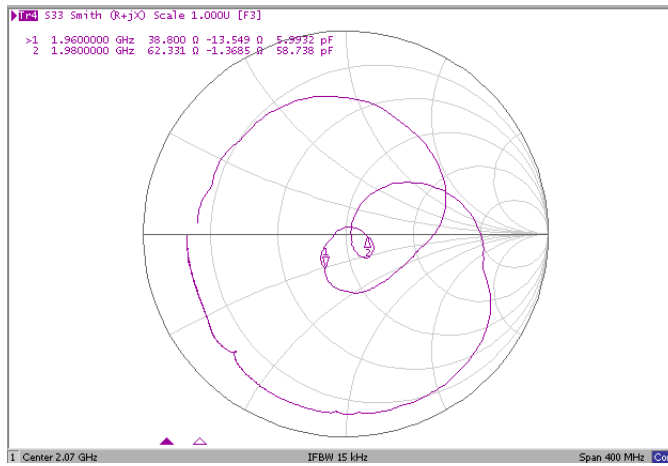


Smith Chart Characteristic

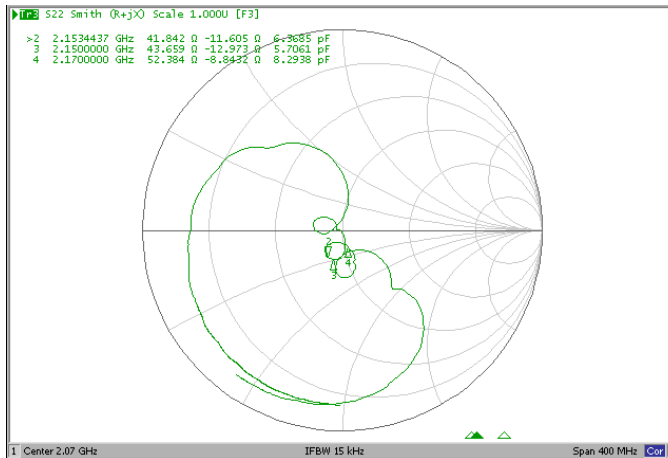
Ant



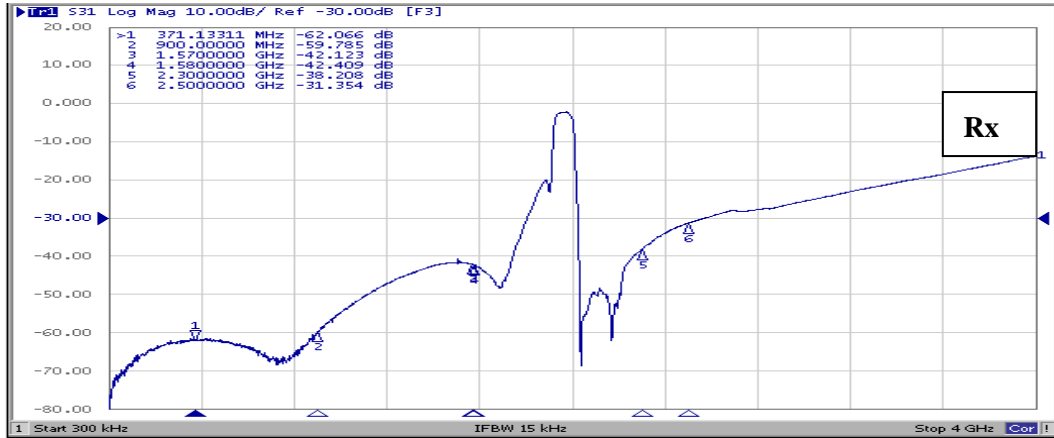
Rx



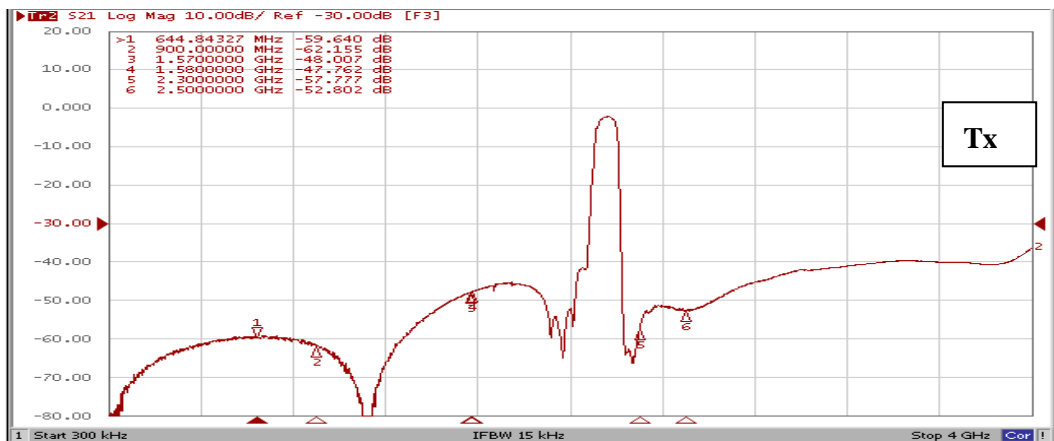
Tx



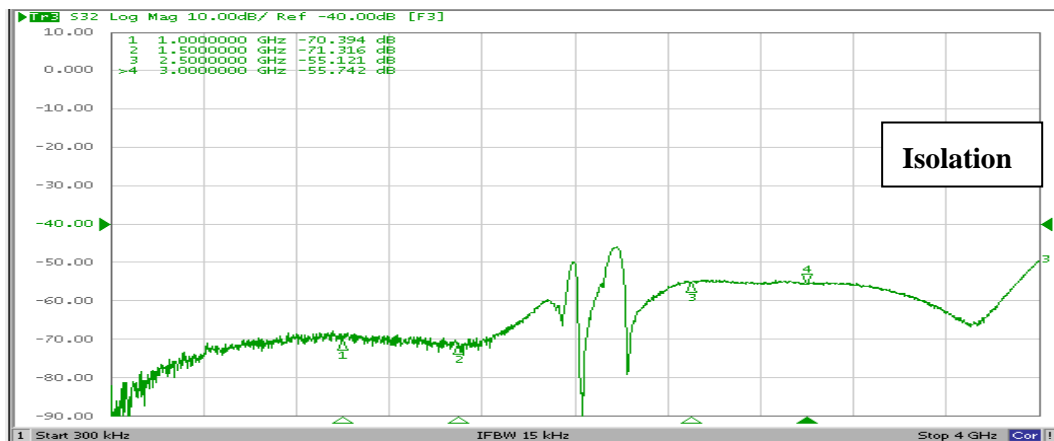
Wide Span Characteristic



High Freq. Wide Characteristic



Isolation Wide Characteristic



Test PCB Loss

