

- WCDMA SAW Duplexer
- Revision 0: MAY 2007

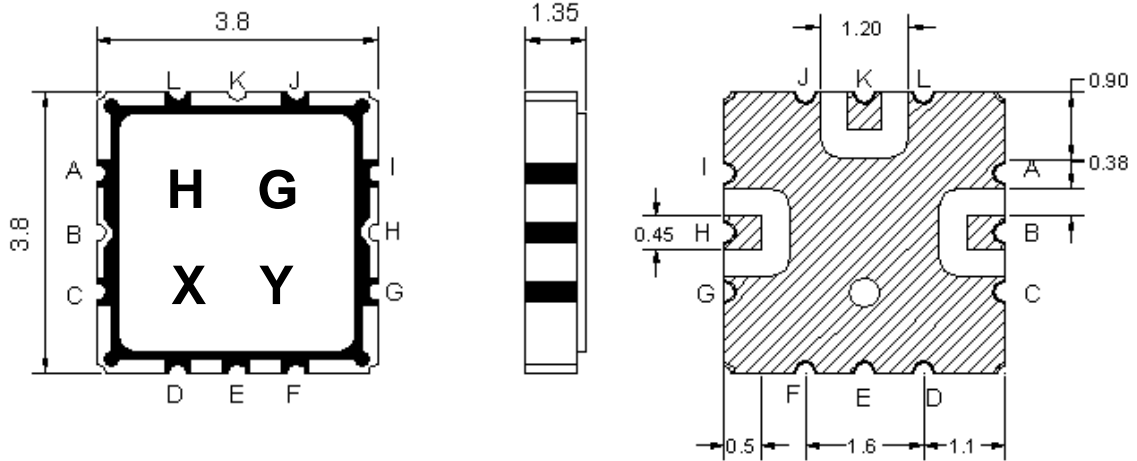
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-30	-	+80
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_1950MHz		Specifications			
Insertion Loss	1940 ~ 1960	dB	-	1.9	2.7
Ripple	1940 ~ 1960	dB _{p-p}	-	0.4	1.0
Return Loss	1940 ~ 1960	dB	10	12	-
Absolute Attenuation	D.C ~ 900	dB	55	64	-
	1570 ~ 1580	dB	35	41	-
	2070	dB	50	53	-
	2130 ~ 2150	dB	45	50	-
	2300 ~ 2500	dB	25	33	-
Tx_2140MHz		Specifications			
Insertion Loss	2130 ~ 2150	dB	-	2.2	3.0
Ripple	2130 ~ 2150	dB _{p-p}	-	0.6	1.0
Return Loss	2130 ~ 2150	dB	10	16	-
Absolute Attenuation	D.C ~ 900	dB	45	55	-
	1570 ~ 1580	dB	35	45	-
	1940 ~ 1960	dB	48	52	-
	2070	dB	20	36	-
	2300 ~ 2500	dB	40	49	-
Rx → Tx		Specifications			
Isolation	1940 ~ 1960	dB	47	54	-
	2130 ~ 2150	dB	43	46	-

Notes : Excluding Losses due to PCB.

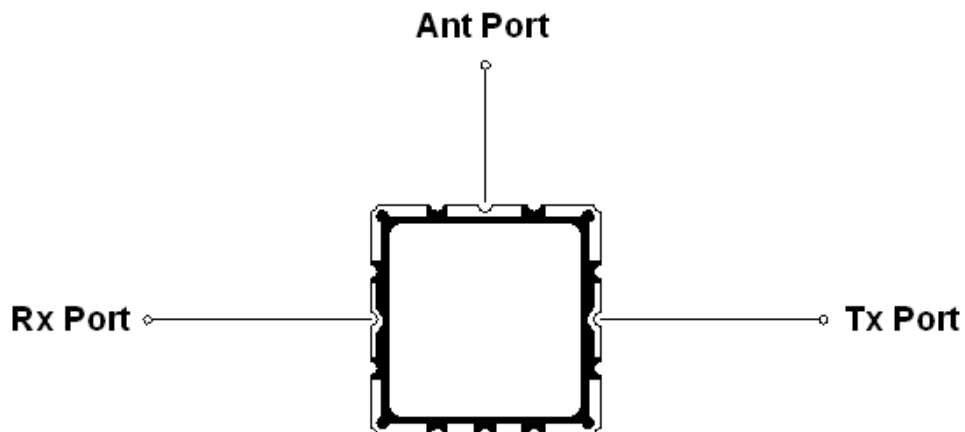
Package Dimensions



Marking Descriptions	
H	Application (WCDMA)
G	Series (TD1921AP8)
X	Date Code (Year)
Y	Date Code (Month)

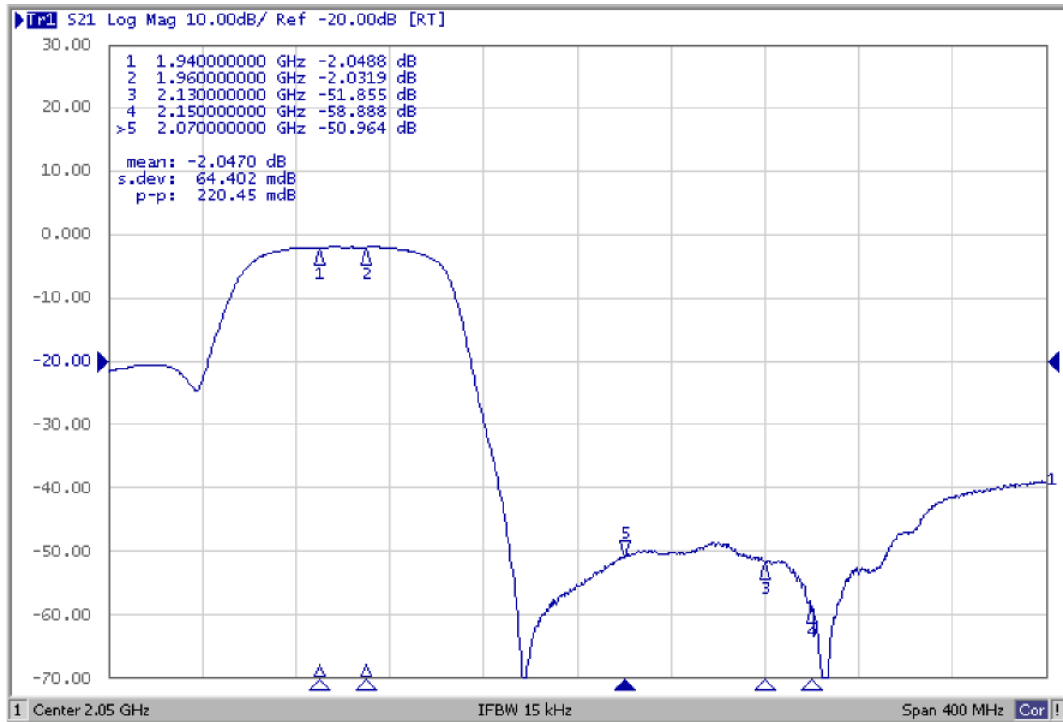
Pin Description	
A, C, D, E, F, G, I, J, L	GND
B	Rx Port(1950MHz)
K	Ant Port
H	TxPort(2140MHz)

Testing Environment

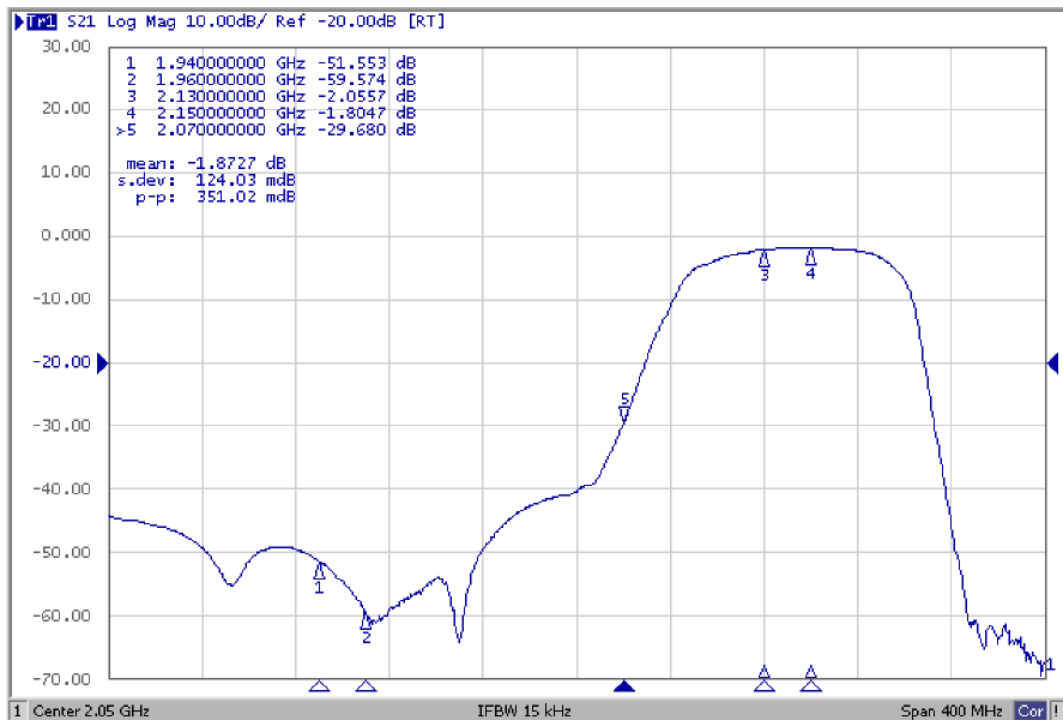


Frequency Characteristics

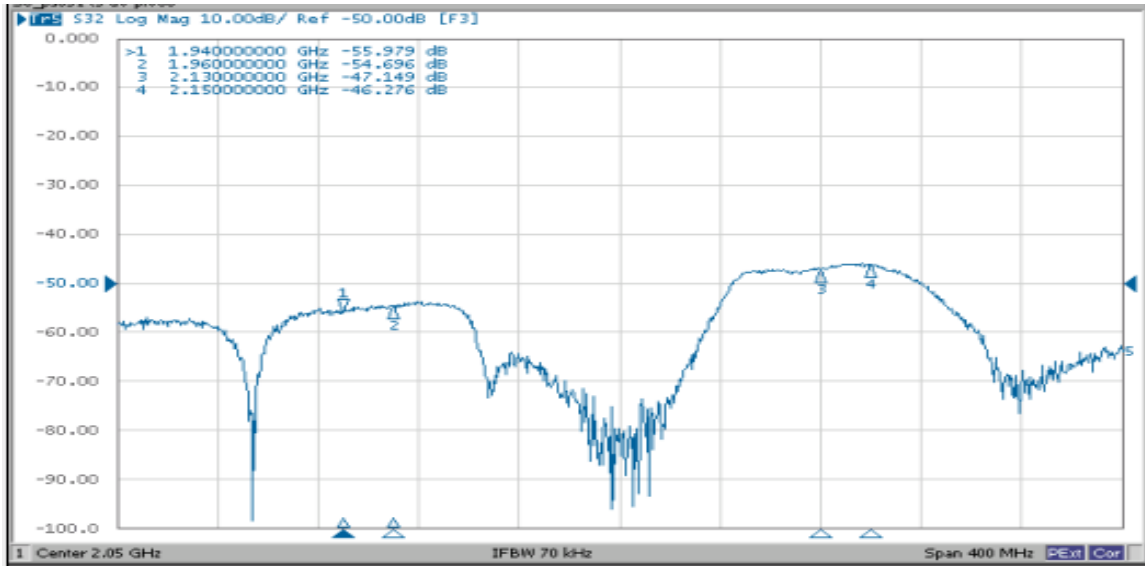
Rx Characteristic



Tx Characteristic

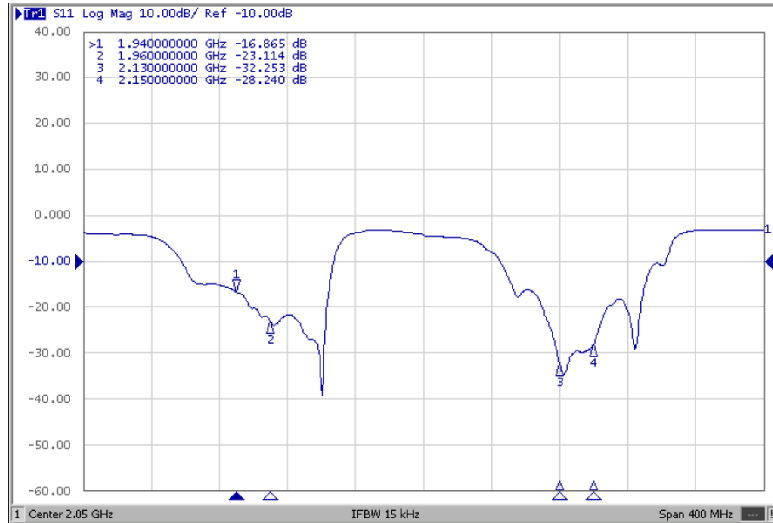


Isolation Characteristic

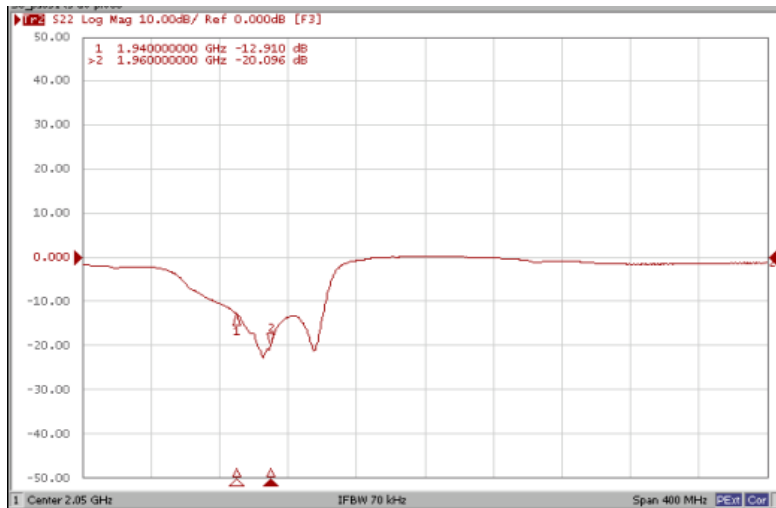


Return Loss

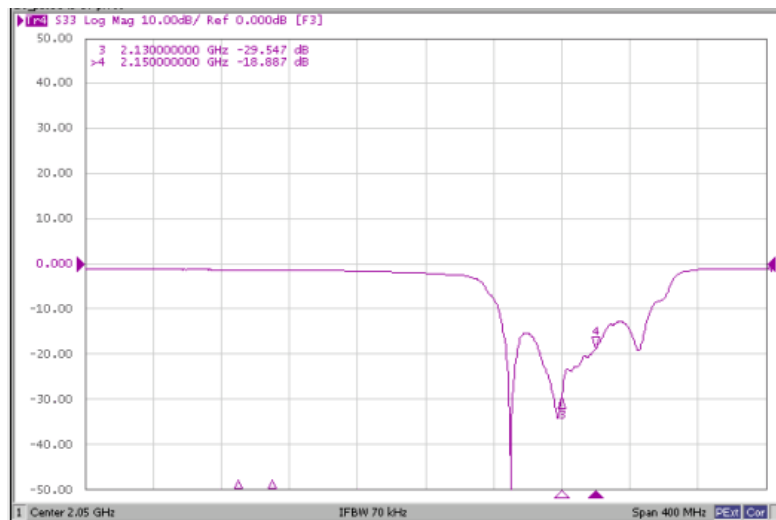
Ant



Rx

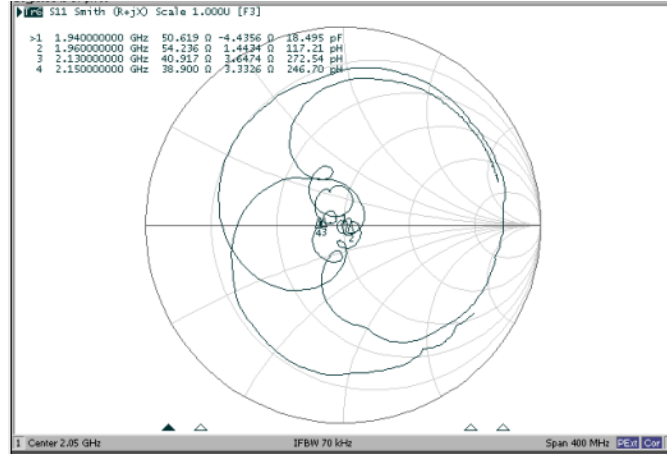


Tx

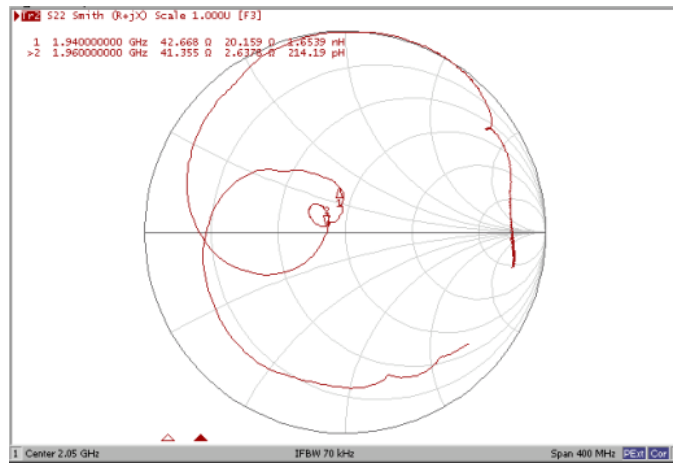


Smith Chart

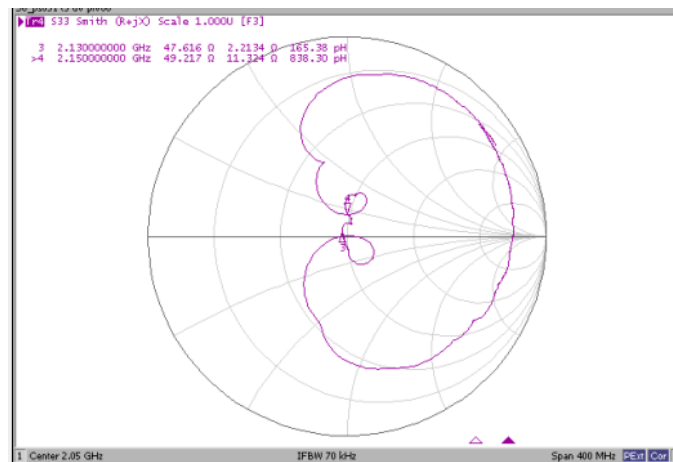
Ant



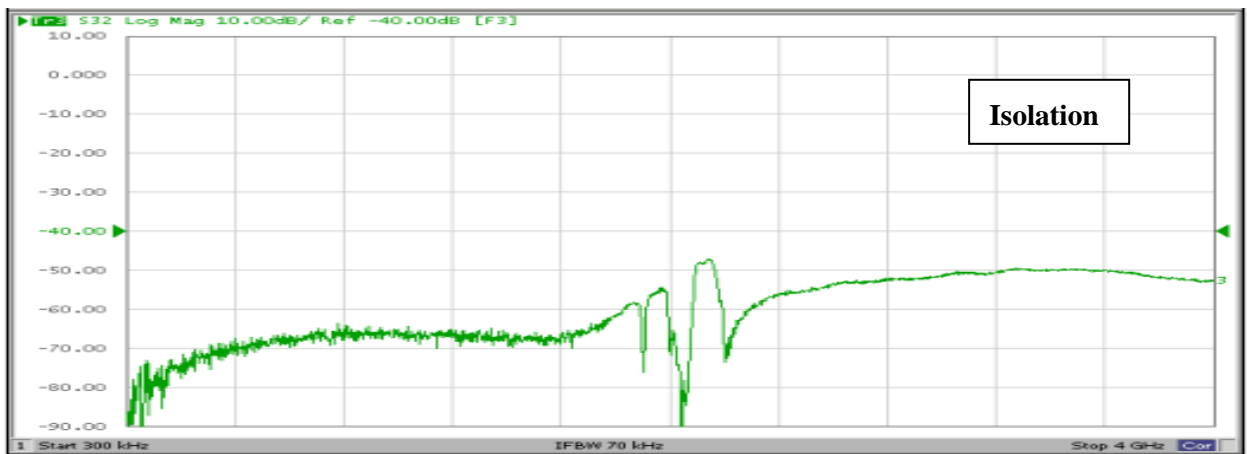
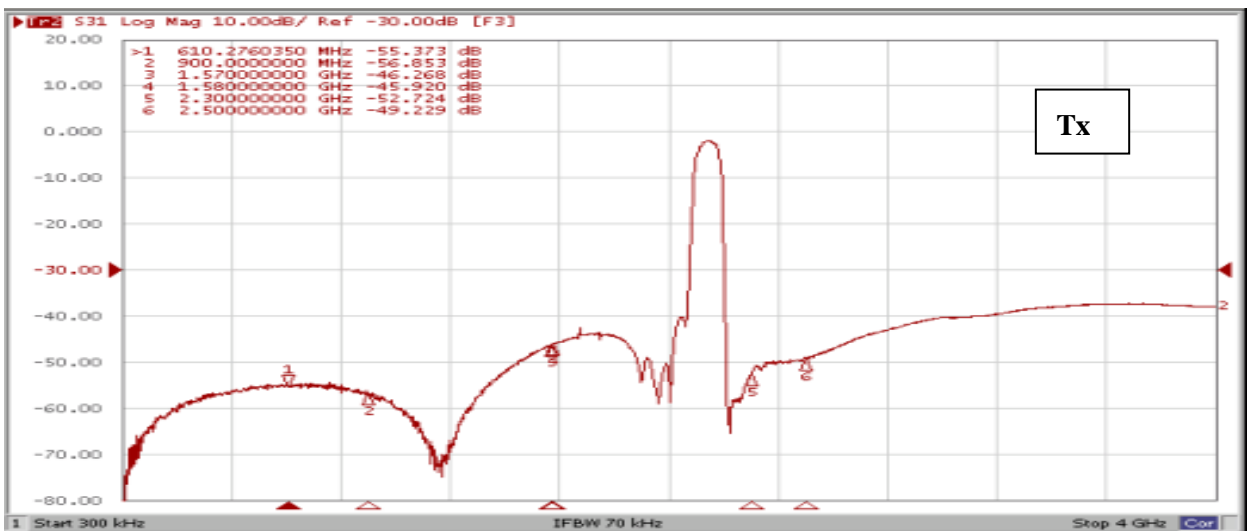
Rx



Tx



Wide Span



Test PCB Loss at 3G Band

