

- WCDMA SAW Duplexer
- Revision 0: October 2007

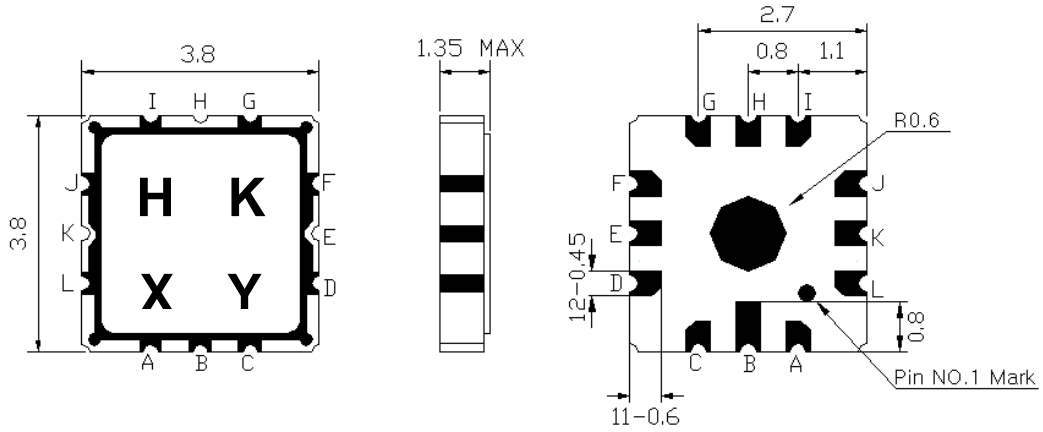
Electrical Characteristics

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	P7			
Length x Width	mm ²	-	3.8 x 3.8	-
Height	mm	-	1.35	-

ELECTRICAL SPECIFICATION					
PARAMETERS	CONDITION [MHZ]	UNIT	MINIMUM	TYPICAL	MAXIMUM
Rx_1930MHz		Specifications			
Insertion Loss	1920 ~ 1940	dB	-	2.2	2.8
Ripple	1920 ~ 1940	dBp-p	-	0.4	1.0
Return Loss	1920 ~ 1940	dB	10	15	-
Absolute Attenuation	D.C ~ 900	dB	50	60	-
	1570 ~ 1580	dB	35	46	-
	2050	dB	45	55	-
	2110 ~ 2130	dB	45	53	-
	2300 ~ 2500	dB	20	28	-
Tx_2120MHz		Specifications			
Insertion Loss	2110 ~ 2130	dB	-	2.6	3.2
Ripple	2110 ~ 2130	dBp-p	-	0.6	1.2
Return Loss	2110 ~ 2130	dB	10	15	-
Absolute Attenuation	D.C ~ 900	dB	50	60	-
	1570 ~ 1580	dB	35	44	-
	1920 ~ 1940	dB	43	49	-
	2050	dB	15	25	-
	2300 ~ 2500	dB	35	45	-
Rx → Tx		Specifications			
Isolation	1920 ~ 1940	dB	50	55	-
	2110 ~ 2130	dB	41	46	-

Notes : Excluding Losses due to PCB.

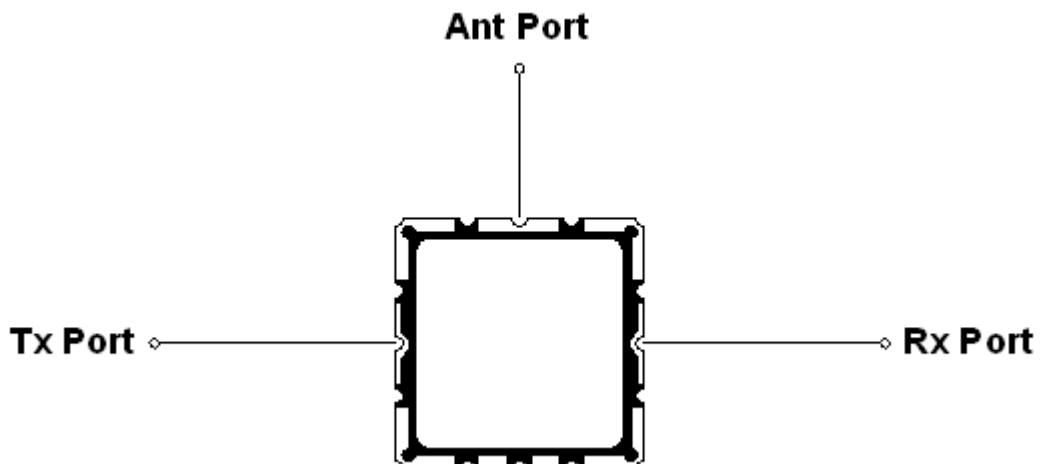
Package Dimensions



Marking Descriptions	
H	Application (WCDMA)
K	Series (TD1921CP7)
X	Date Code (Year)
Y	Date Code (Month)

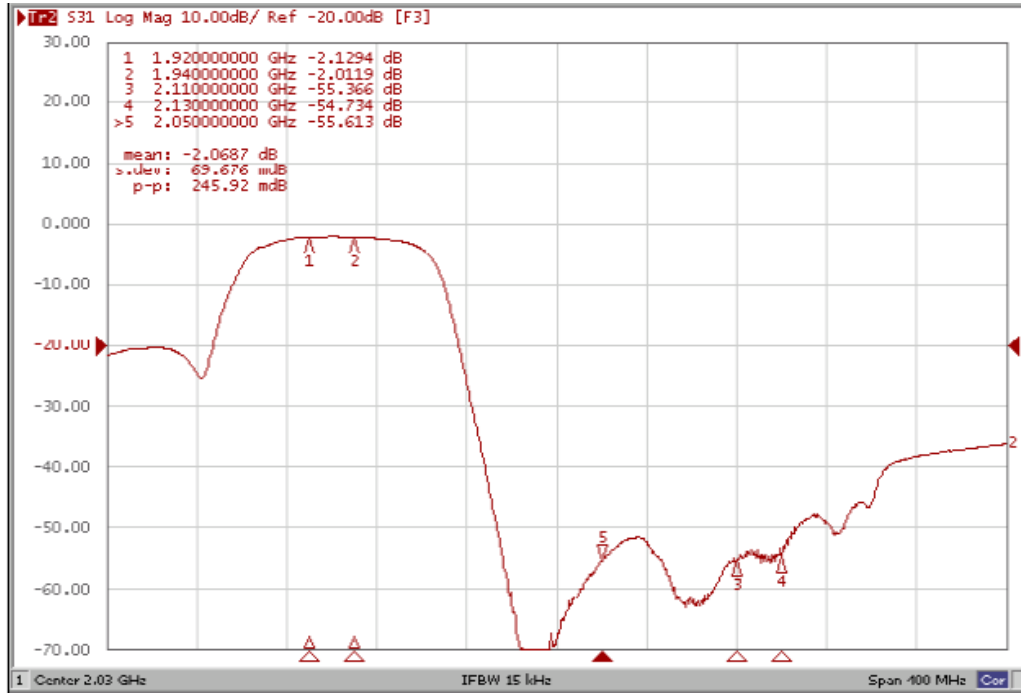
Pin Description	
A, B, C, D, F, G, I, J, L	GND
E	Rx Port(1930MHz)
H	Ant Port
K	TxPort(2120MHz)

Testing Environment

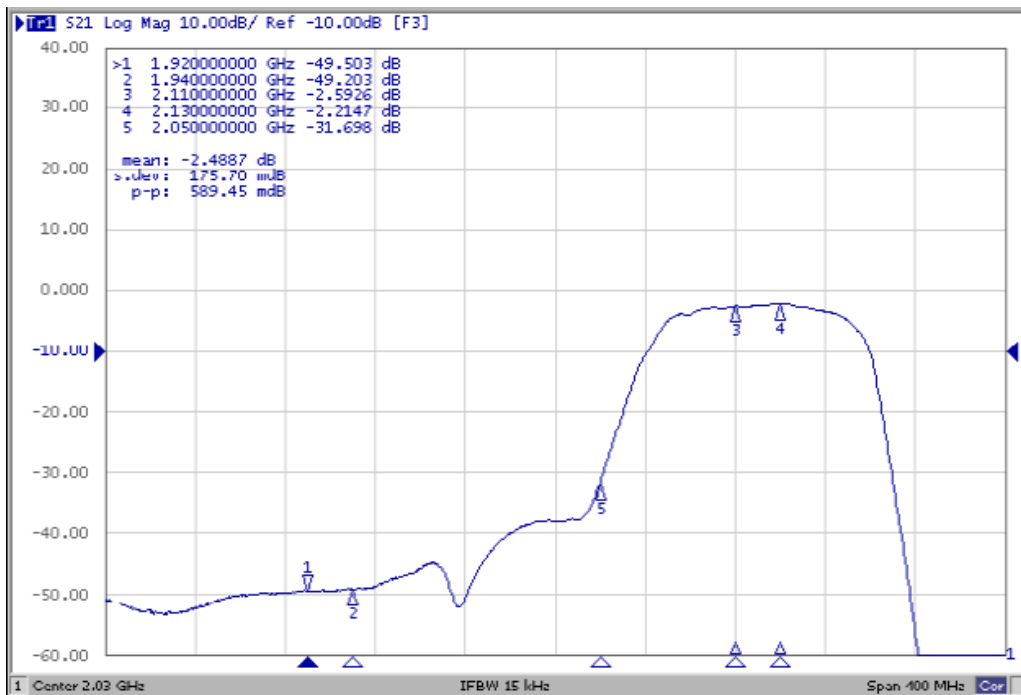


Frequency Characteristics

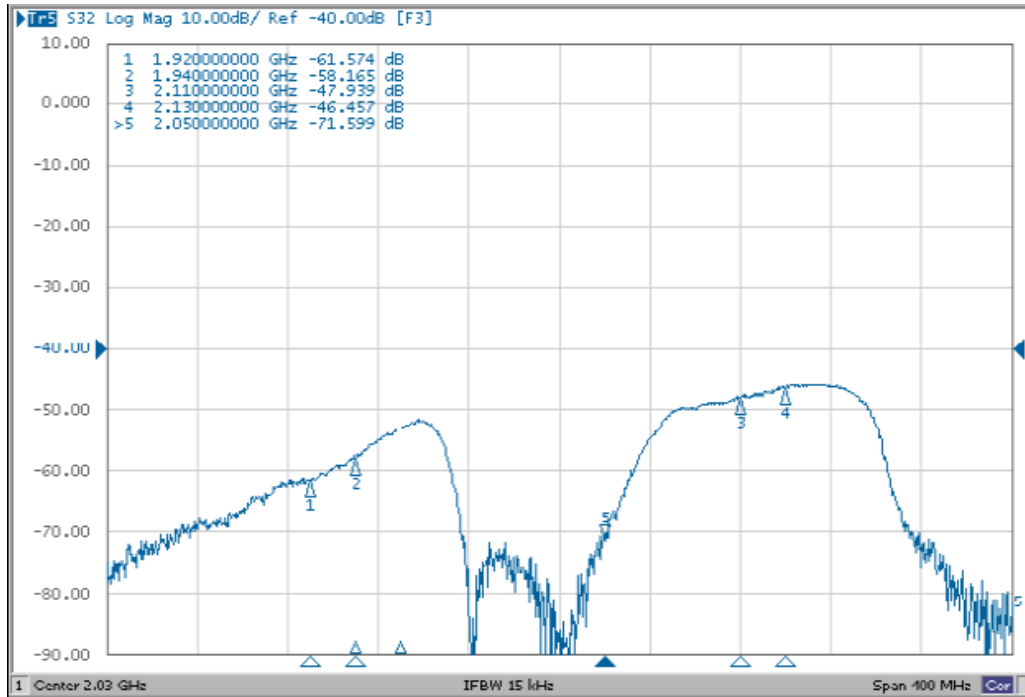
Rx Characteristic



Tx Characteristic

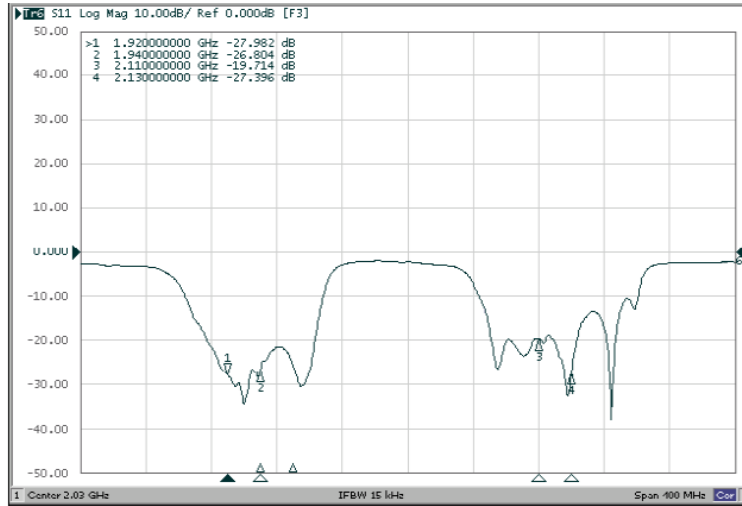


Isolation Characteristic

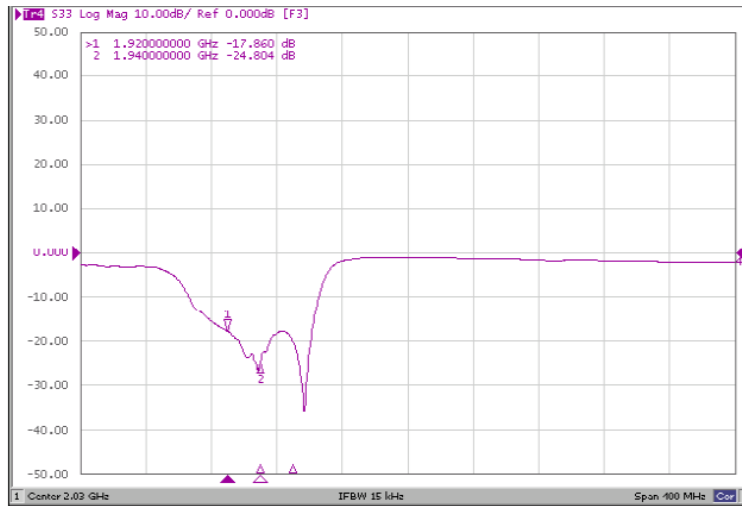


Return Loss Characteristic

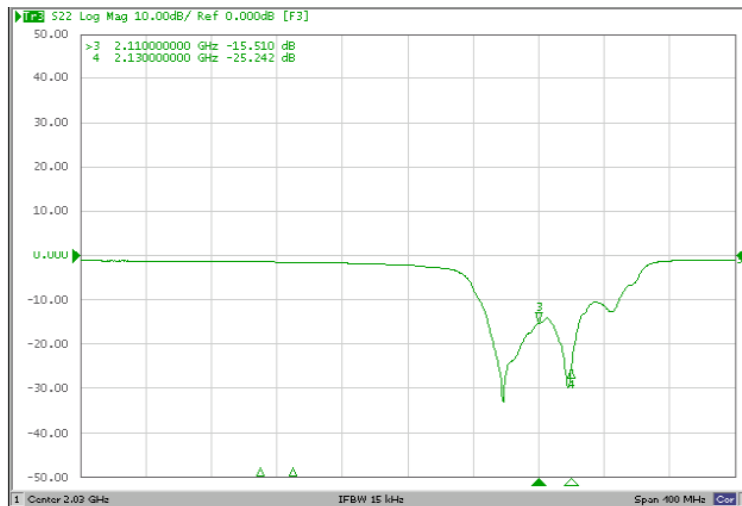
Ant



Rx

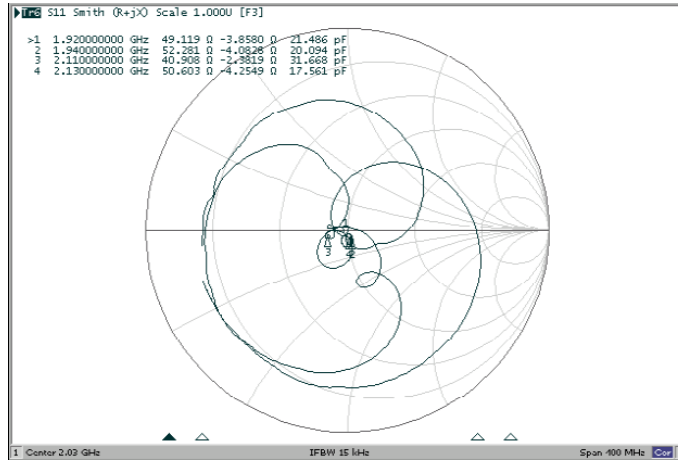


Tx

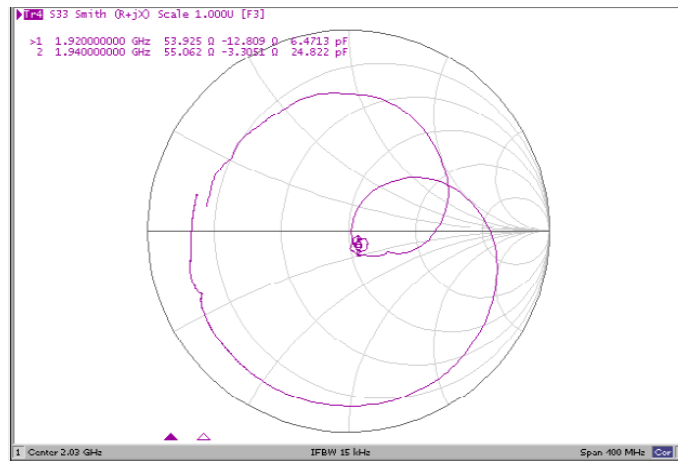


Smith Chart Characteristic

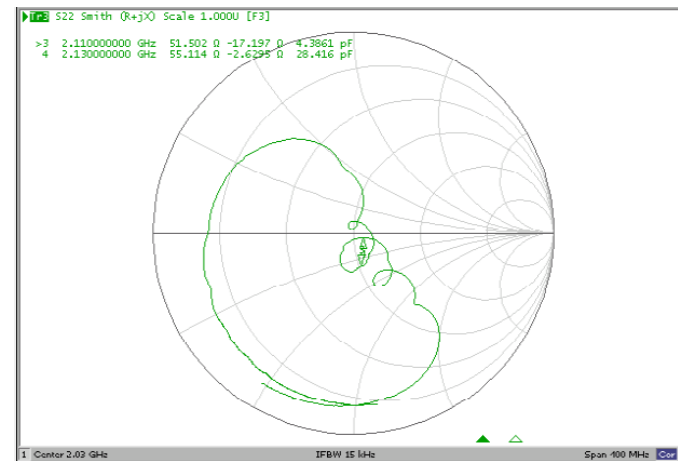
Ant



Rx



Tx



Wide Span Characteristic

