

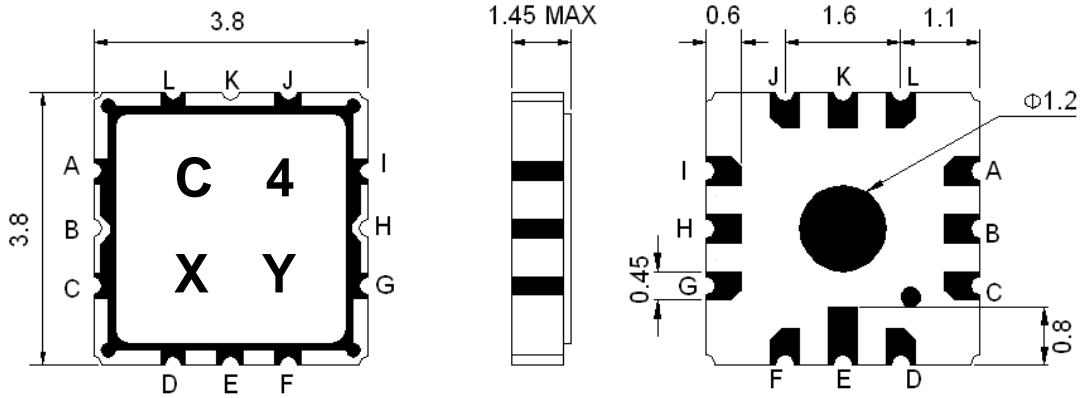
- GSM SAW Duplexer
- Revision 0: September 2008

Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	5	-
Ant. Tx. Rx Terminating Impedance	Ω	-	50	-
Package type & size	P2			
Length x Width	mm ²	-	3.8 x 3.8	-
Height	mm	-	-	1.45

ELECTRICAL SPECIFICATION						
PARAMETERS		CONDITION [MHZ]	UNIT	MINIMUM	TYPICAL	MAXIMUM
Tx_902.5MHz			Specifications			
Insertion Loss		890 ~ 915	dB	-	1.7	2.2
Ripple		890 ~ 915	dB _{p-p}	-	0.7	1.2
VSWR	Ant. Port	890 ~ 915	-	-	1.6	2.0
	Tx Port	890 ~ 915	-	-	1.5	2.0
Absolute Attenuation		0.3 ~ 860	dB	10	16	-
		935 ~ 960	dB	45	50	-
		1570 ~ 1580	dB	10	18	-
		1710 ~ 2170	dB	8	15	-
		2300 ~ 2500	dB	3	7	-
Rx_947.5MHz			Specifications			
Insertion Loss		935 ~ 960	dB	-	2.3	2.8
Amplitude Imbalance		935 ~ 960	dB _{p-p}	-	1.0	1.5
VSWR	Ant. Port	935 ~ 960	-	-	1.7	2.0
	Rx Port	935 ~ 960	-	-	1.6	2.0
Absolute Attenuation		0.3 ~ 860	dB	25	32	-
		890 ~ 915	dB	50	55	-
		1570 ~ 1580	dB	45	55	-
		1710 ~ 2170	dB	50	57	-
		2300 ~ 2500	dB	40	48	-
Rx → Tx			Specifications			
Isolation		890 ~ 915	dB	50	55	-
		935 ~ 960	dB	48	53	-

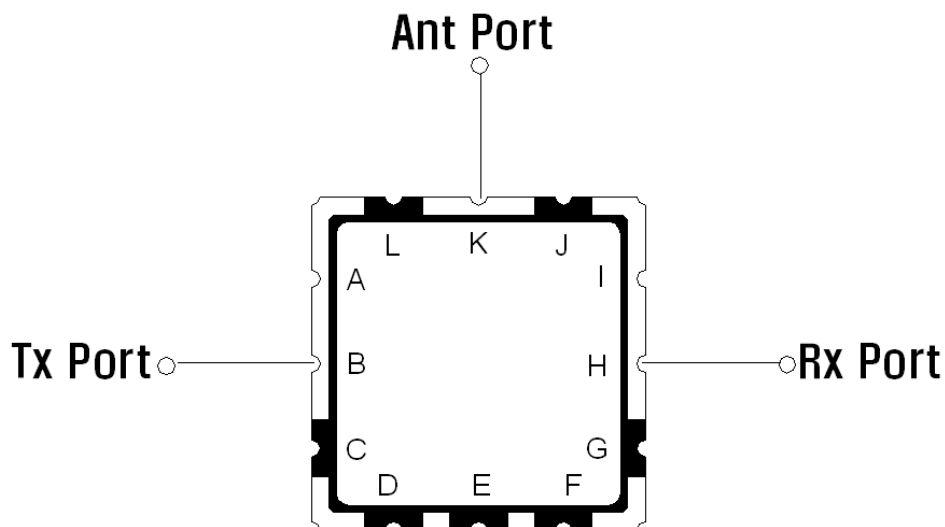
Package Dimensions



Marking Descriptions	
C	GSM Application
4	SAW Duplexer
X	Date Code (Year)
Y	Date Code (Month)

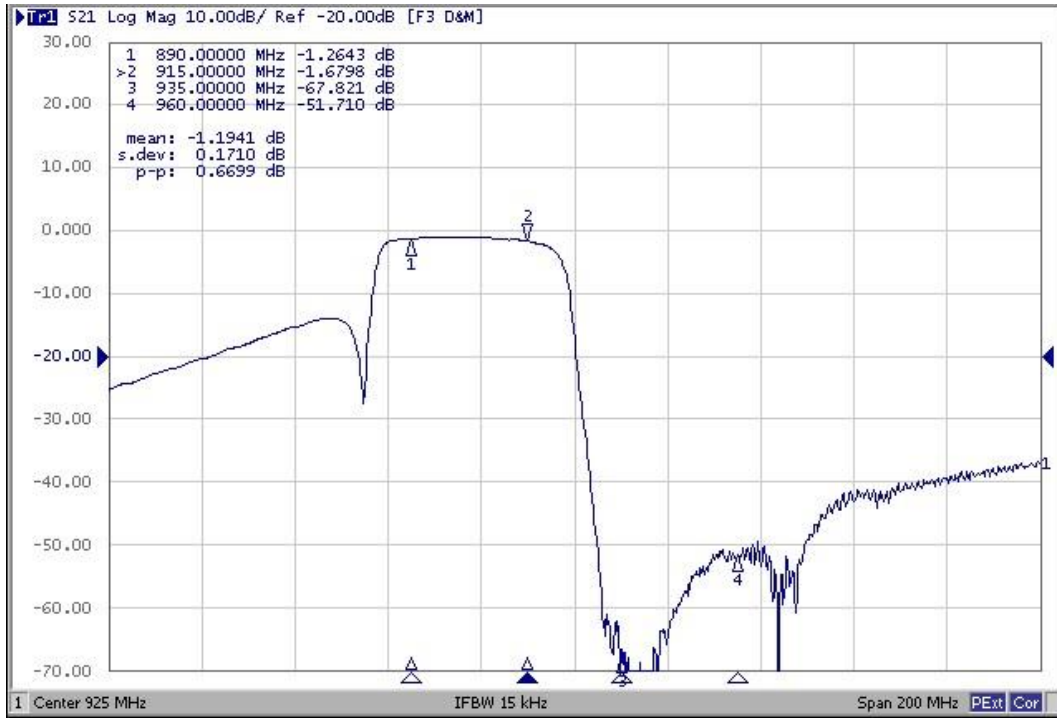
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
H	Rx Port(947.5MHz)
K	Antenna
B	Tx Port (902.5MHz)

Testing Environment



Frequency Characteristics

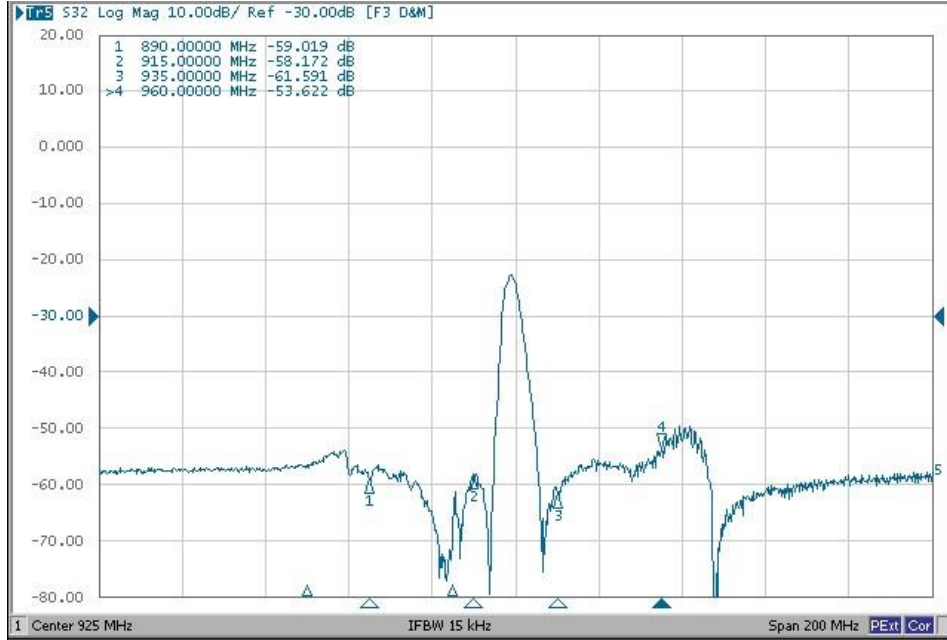
Tx Characteristic



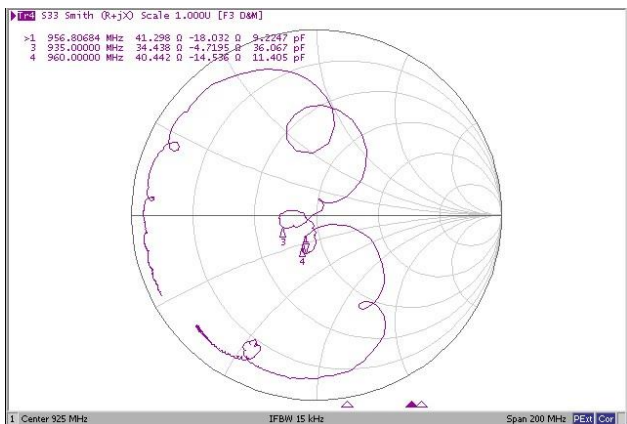
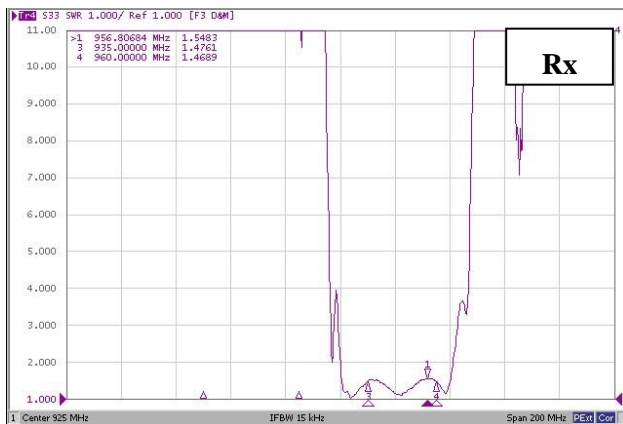
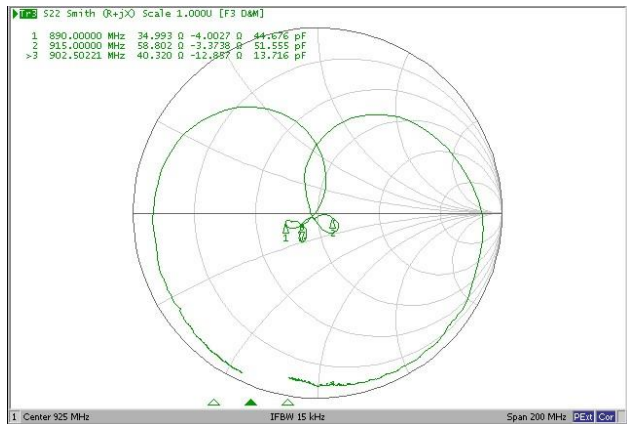
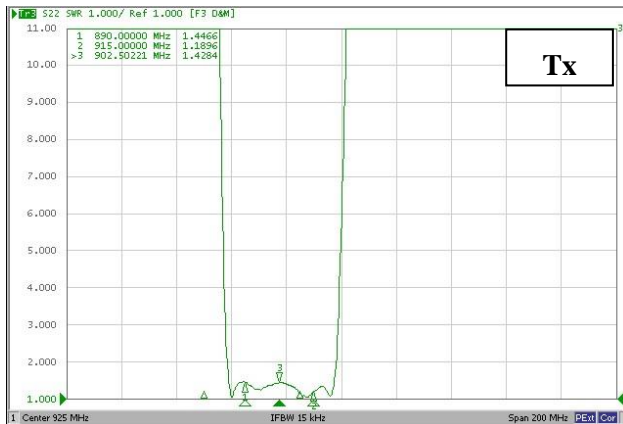
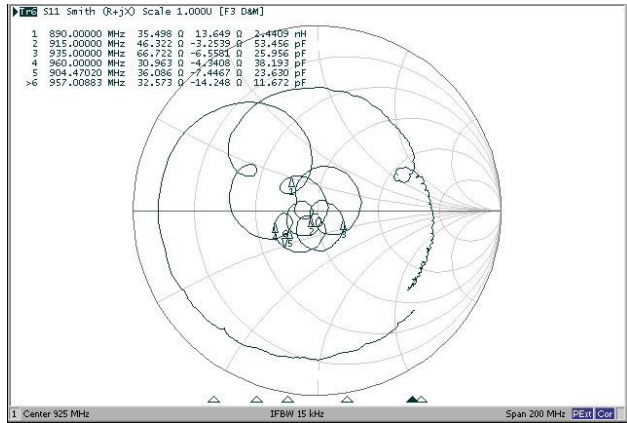
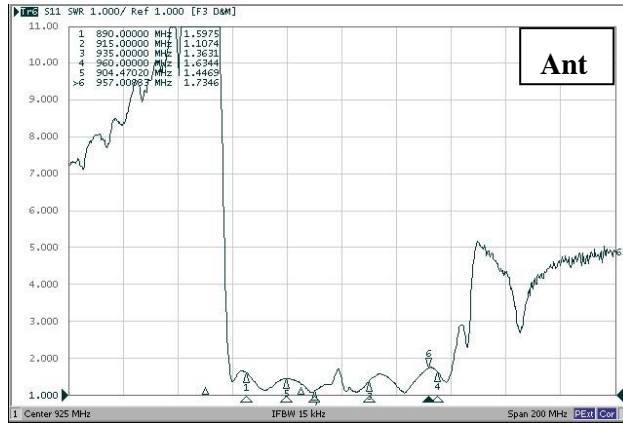
Rx Characteristic



Isolation



VSWR & Smith Chart



Wide Span

