

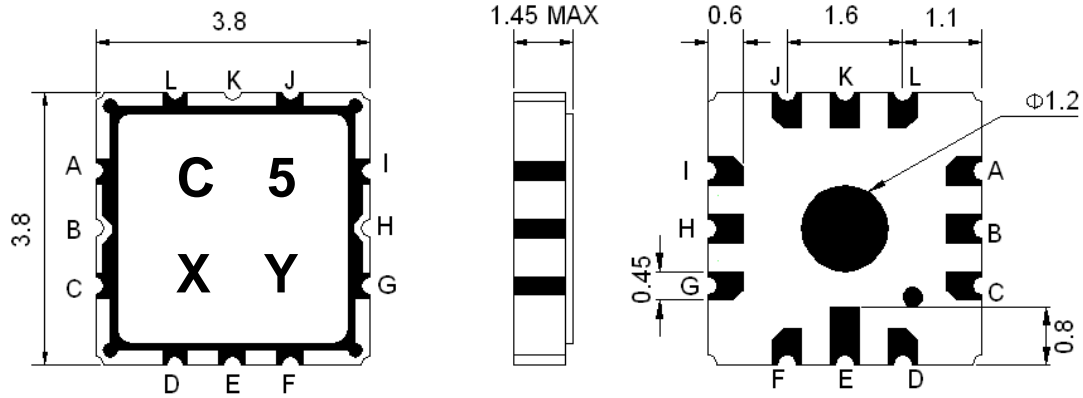
- GSM SAW Duplexer
- Revision 0: March 2009

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	-

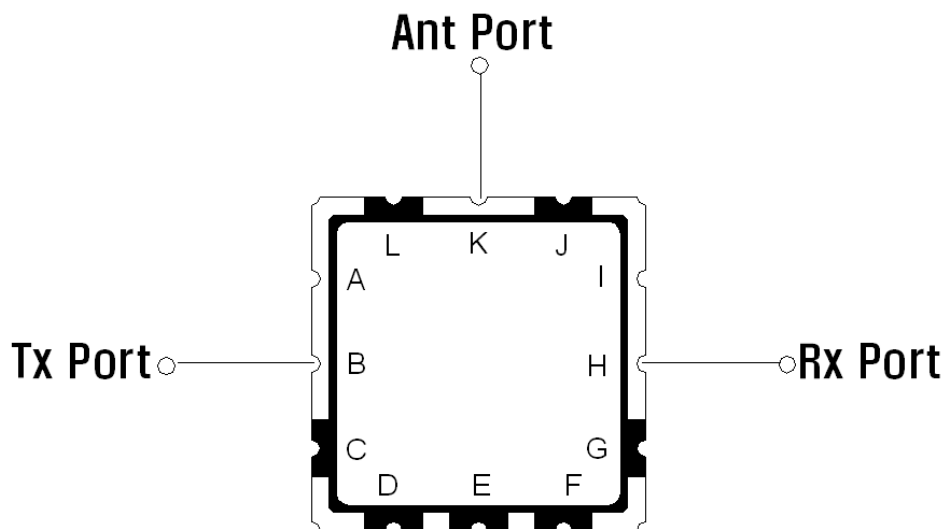
Package Dimensions



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

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

Testing Environment



Frequency Characteristics

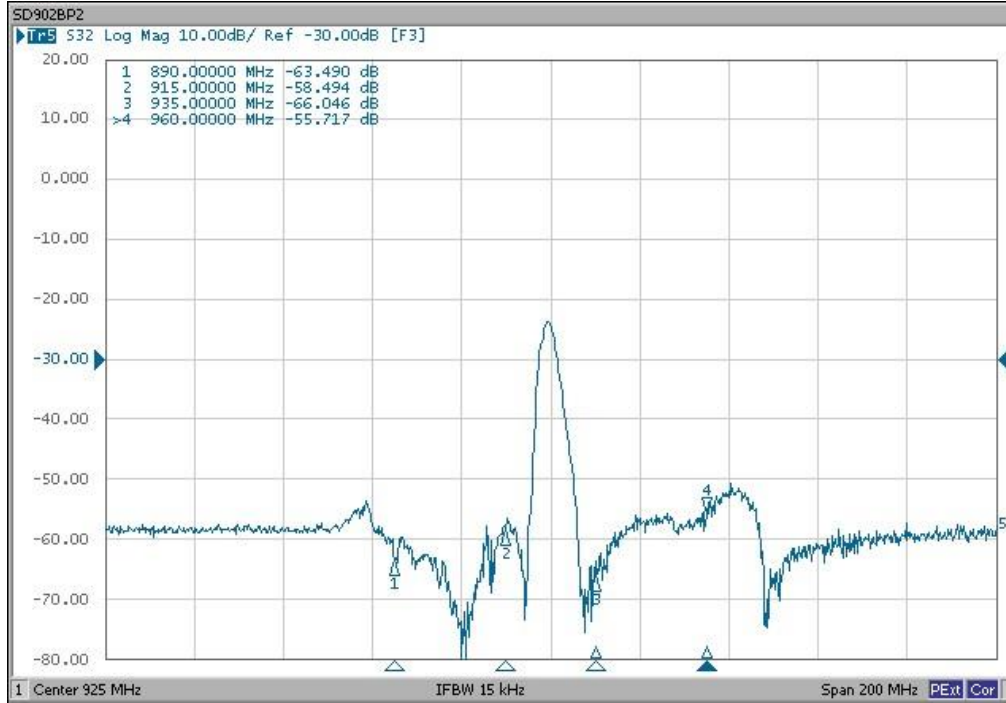
Tx Characteristic



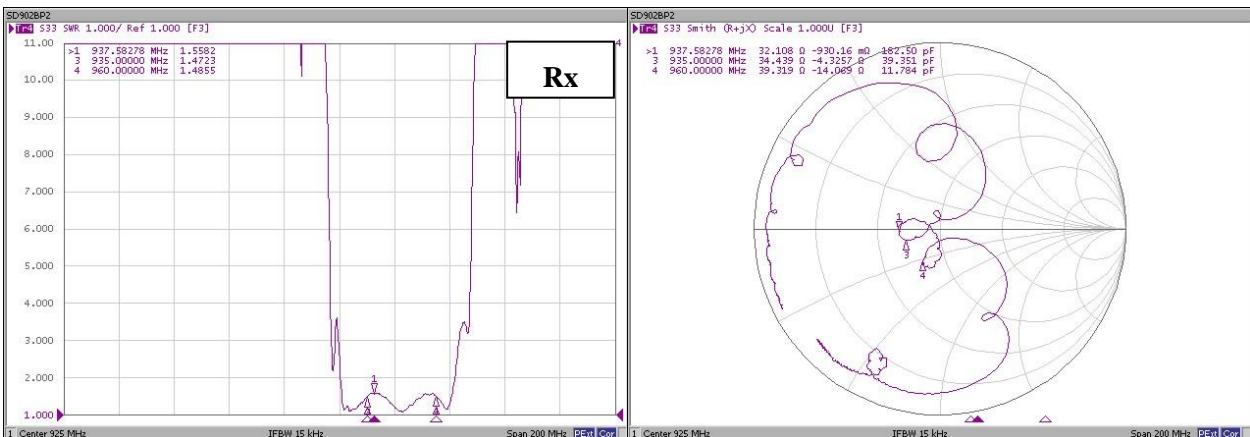
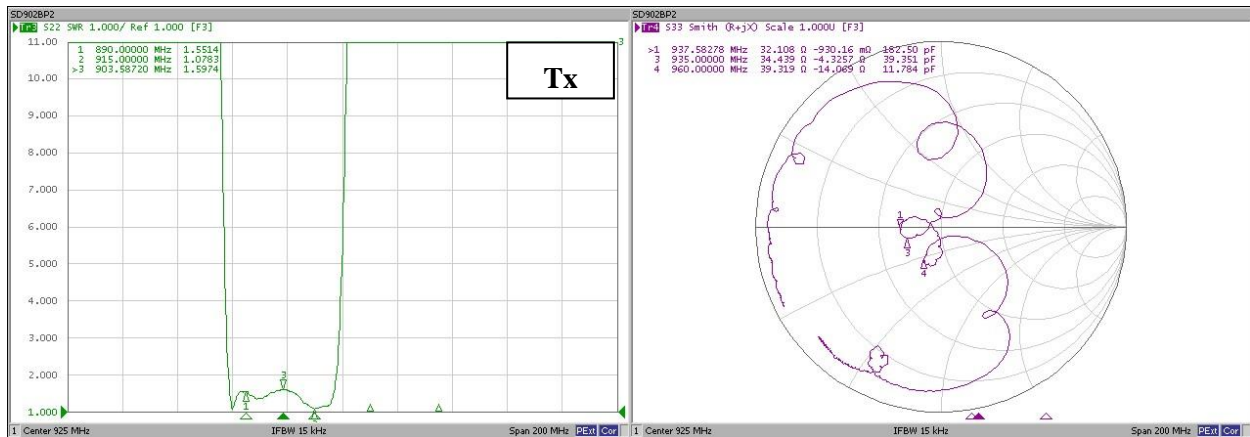
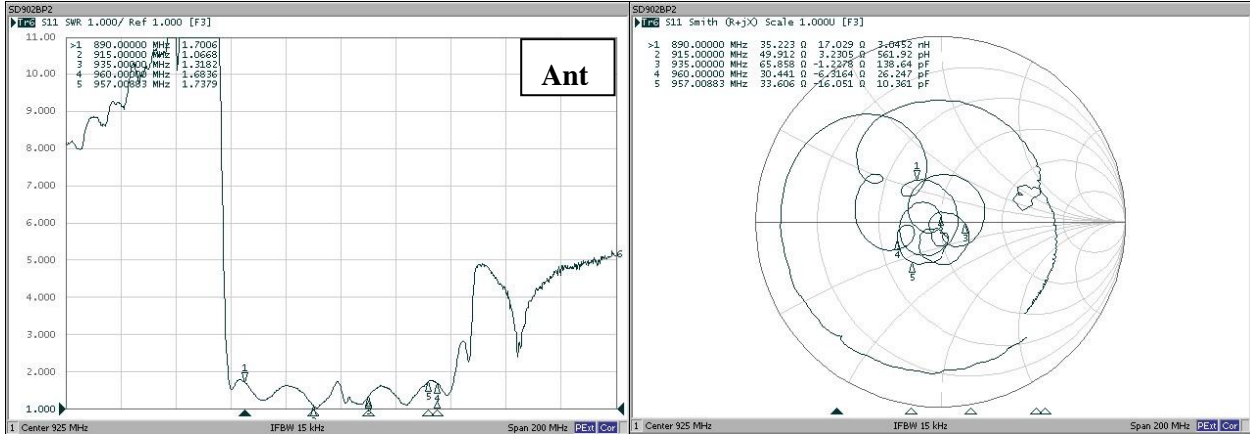
Rx Characteristic



Isolation



VSWR & Smith Chart



Wide Span

