

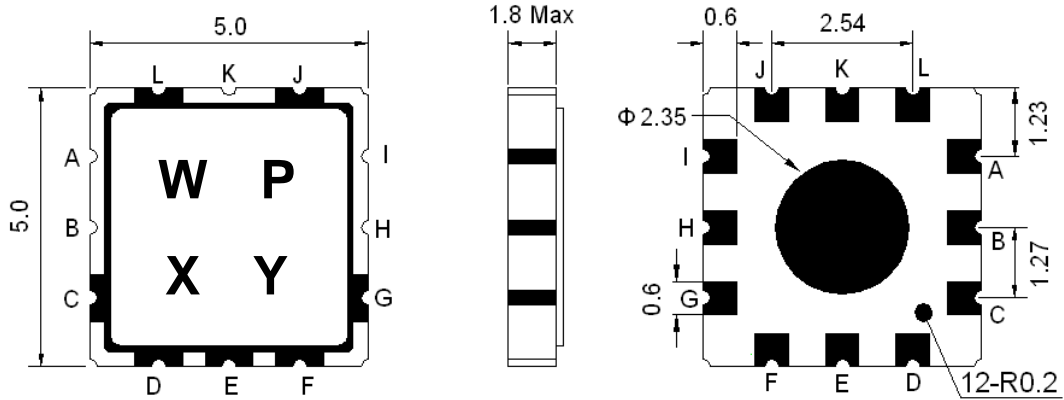
- CDMA450 E-Band, SAW Duplexer
- Revision 0: December 2008

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	-
Maximum Input Power	W	1.0 W > 50000 Hours, CW tone(Ta= +50°C)		
Input Impedance	Ω	-	50	-
Output Impedance	Ω	-	50	-
Package type & size	K2			
Length x Width	mm ²	-	5.0 x 5.0	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION					
PARAMETERS	CONDITION [MHZ]	UNIT	MINIMUM	TYPICAL	MAXIMUM
Tx → Ant		Specifications			
Insertion Loss	415.5 ~ 420.0	dB	-	1.9	2.8
VSWR	415.5 ~ 420.0	-	-	1.6	2.1
Absolute Attenuation	0.3 ~ 400.0	dB	23	26	-
	425.5 ~ 430.0	dB	30	53	-
	430.0 ~ 1700.0	dB	15	21	-
	1700.0 ~ 2000.0	dB	10	18	-
Ant → Rx		Specifications			
Insertion Loss	425.5 ~ 430.0	dB	-	2.7	4.8
VSWR	425.5 ~ 430.0	-	-	1.6	2.2
Absolute Attenuation	0.3 ~ 415.5	dB	20	24	-
	415.5 ~ 420.0	dB	33	53	-
	460.0 ~ 600.0	dB	20	27	-
	600.0 ~ 1200.0	dB	20	30	-
	1200.0 ~ 2000.0	dB	30	47	-
Tx → Rx		Specifications			
Isolation	415.5 ~ 420.0	dB	32	52	-
	425.5 ~ 430.0	dB	35	54	-

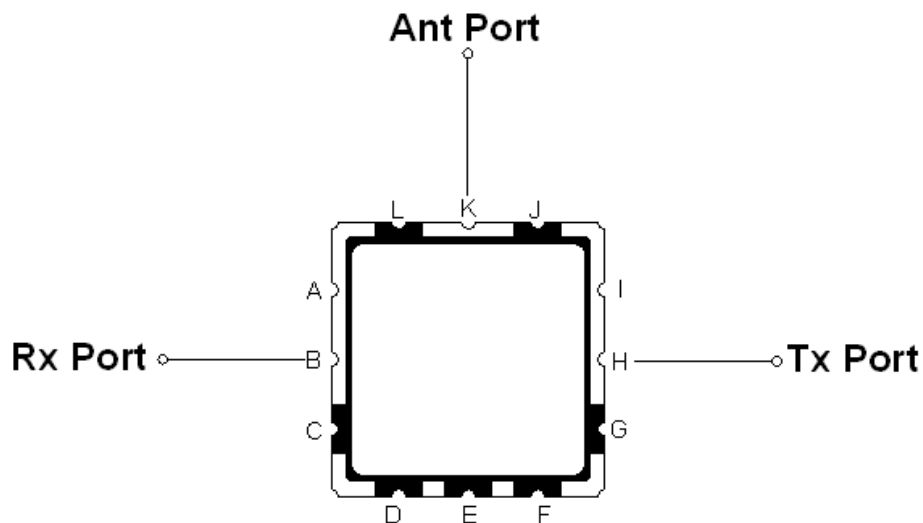
Package Dimensions



Marking Descriptions	
W	Application
P	Series Number
X	Date Code (Year)
Y	Date Code (Month)

Pin Description	
A, C, D, E, F, G, I, J, L	Ground
B	Receiver
K	Antenna
H	Transmitter

Testing Environment



Frequency Characteristics

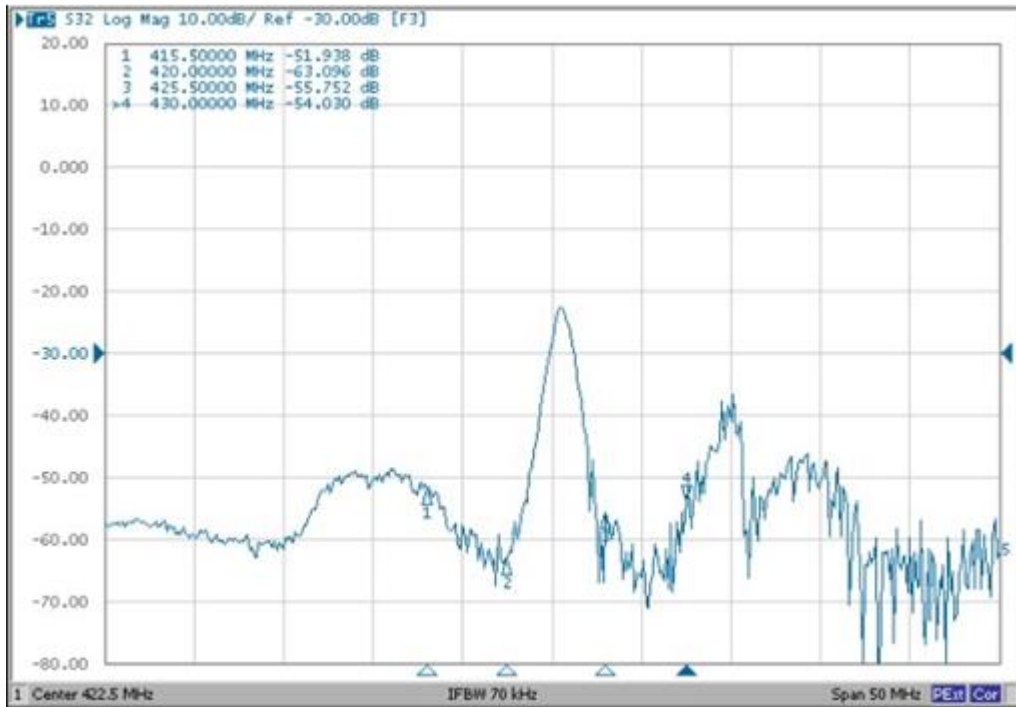
Tx Characteristic



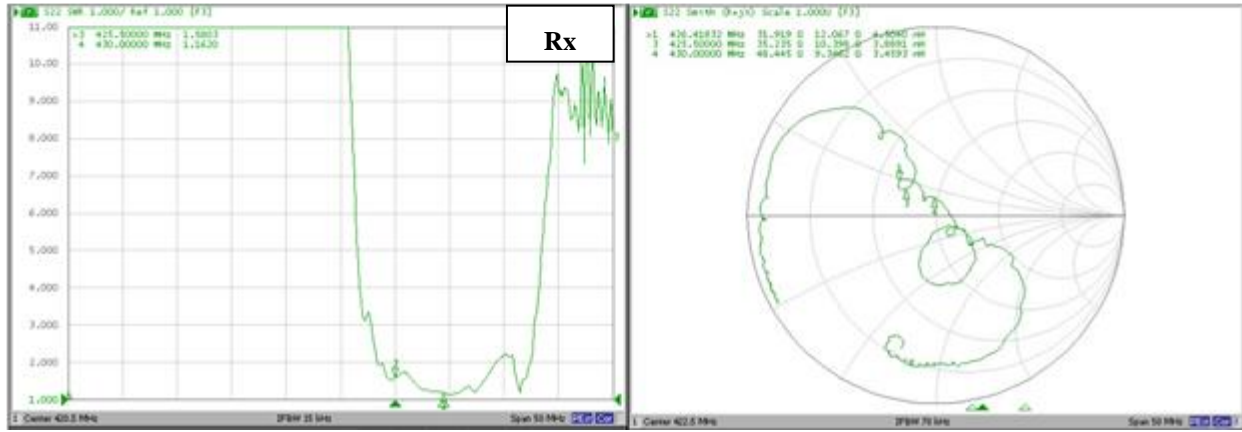
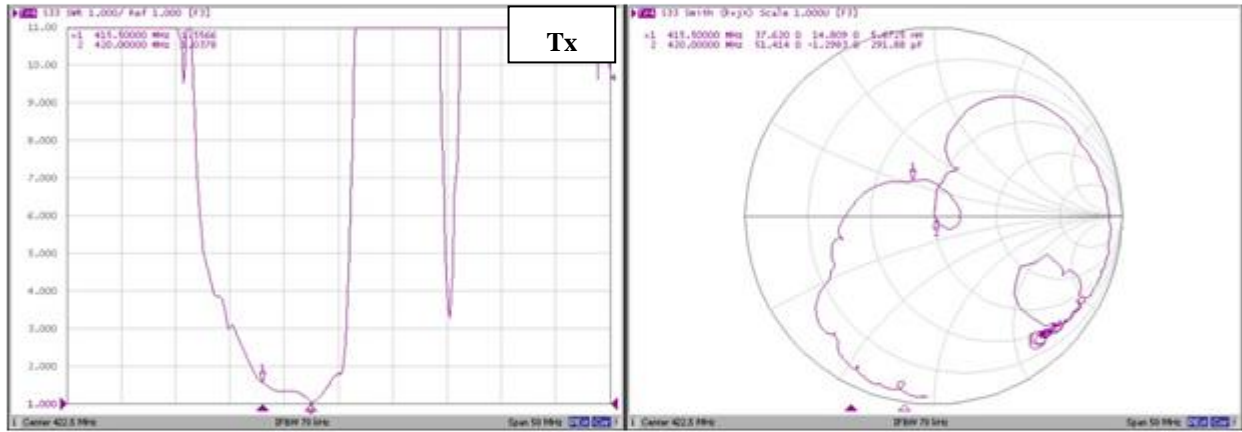
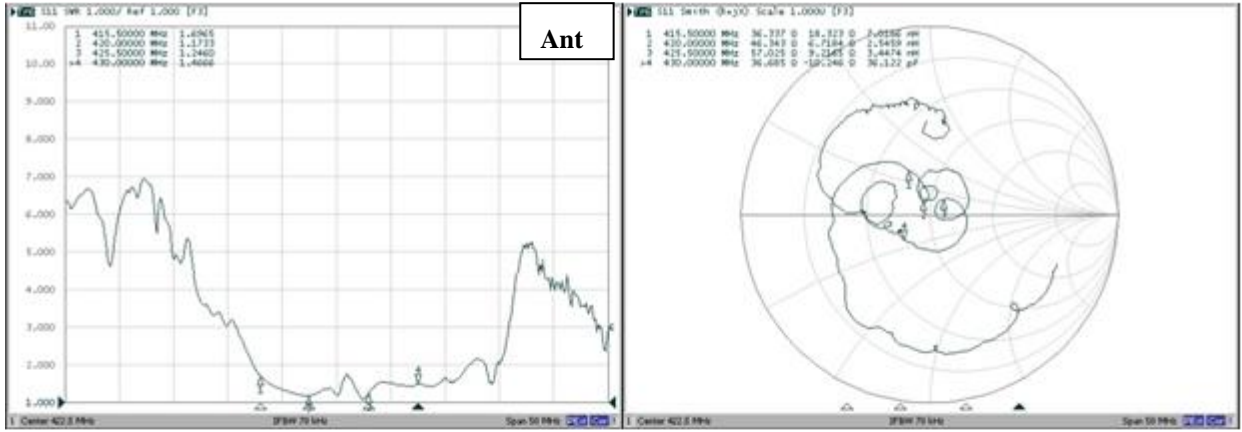
Rx Characteristic



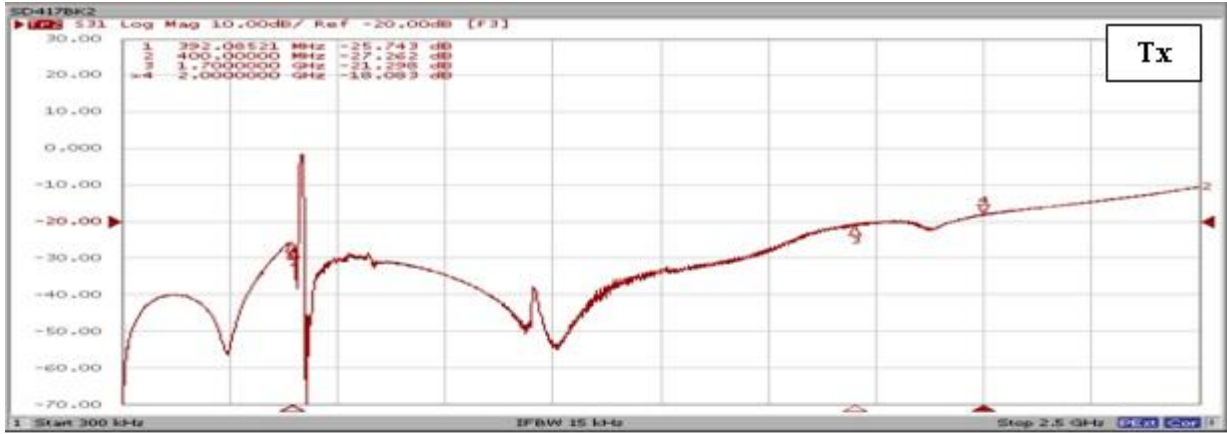
Isolation Characteristic



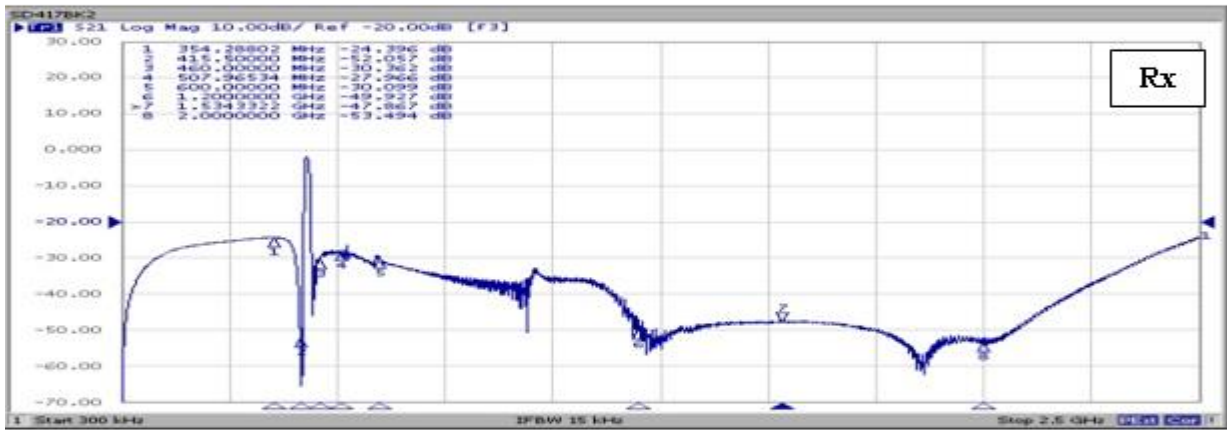
Return Loss & Smith Chart



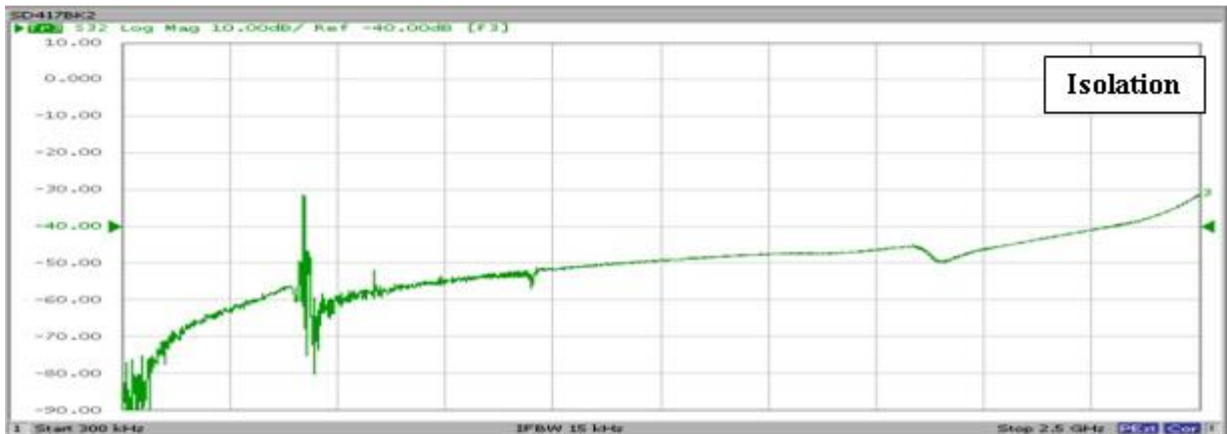
Wide Span



Tx



Rx



Isolation