

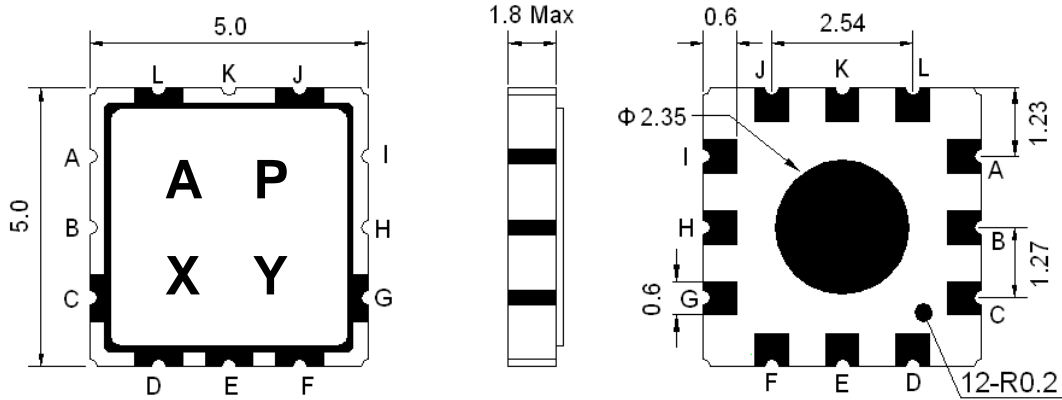
- CDMA450 D-Band, SAW Duplexer
- Revision 1: December 2005

## 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)		
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	K2			
Length x Width	mm <sup>2</sup>	-	5.0 x 5.0	-
Height	mm	-	-	1.8

ELECTRICAL SPECIFICATION					
PARAMETERS	CONDITION [MHZ]	UNIT	MINIMUM	TYPICAL	MAXIMUM
<b>Tx → Ant</b>		<b>Specifications</b>			
Insertion Loss	411.6 ~ 415.9	dB	-	2.5	2.8
VSWR	411.6 ~ 415.9	-	-	1.6	2.1
Absolute Attenuation	0.3 ~ 400.0	dB	23	26	-
	421.6 ~ 425.9	dB	30	50	-
	425.9 ~ 1700.0	dB	23	27	-
	1700.0 ~ 2000.0	dB	10	17	-
<b>Ant → Rx</b>		<b>Specifications</b>			
Insertion Loss	421.6 ~ 425.9	dB	-	3.2	4.3
VSWR	421.6 ~ 425.9	-	-	1.5	2.2
Absolute Attenuation	0.3 ~ 411.6	dB	20	24	-
	411.6 ~ 415.9	dB	33	51	-
	442.0 ~ 600.0	dB	20	27	-
	600.0 ~ 1200.0	dB	20	28	-
	1200.0 ~ 2000.0	dB	25	43	-
<b>Tx → Rx</b>		<b>Specifications</b>			
Isolation	411.6 ~ 415.9	dB	32	50	-
	421.6 ~ 425.9	dB	35	55	-

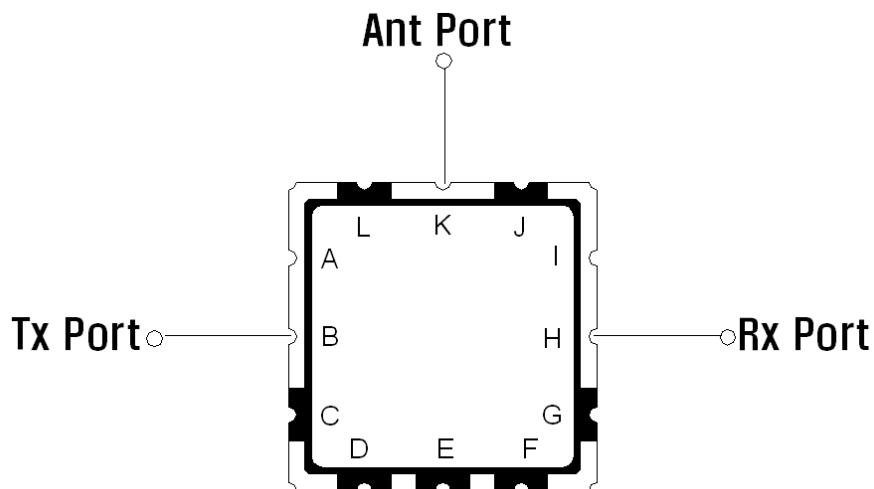
## Package Dimensions



Marking Descriptions	
A	CDMA450 Application
P	Series Number
X	Date Code (Year)
Y	Date Code (Month)

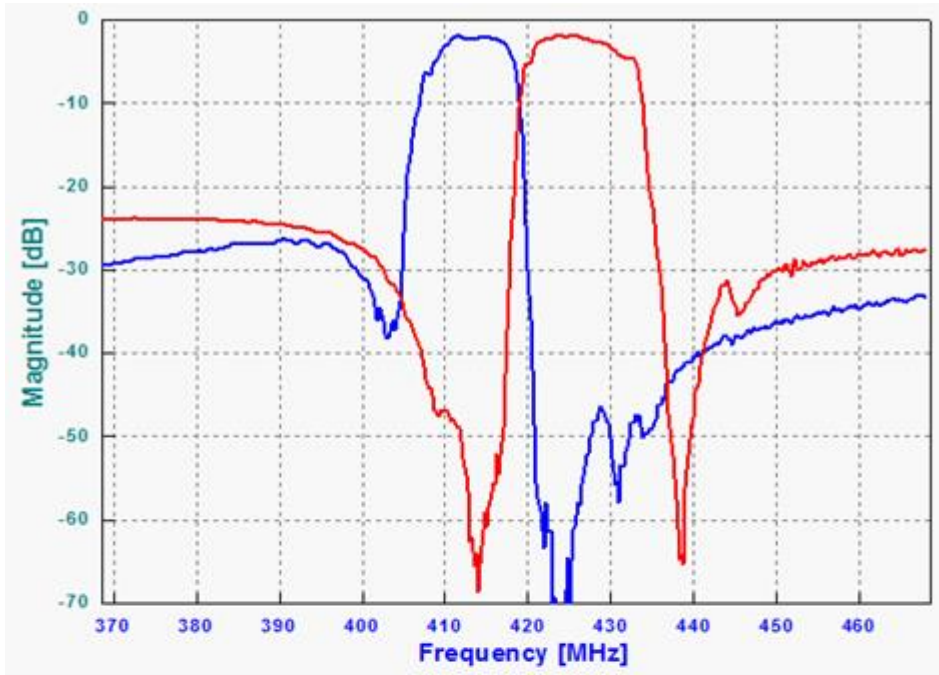
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
H	Receiver
K	Antenna
B	Transmitter

## Testing Environment

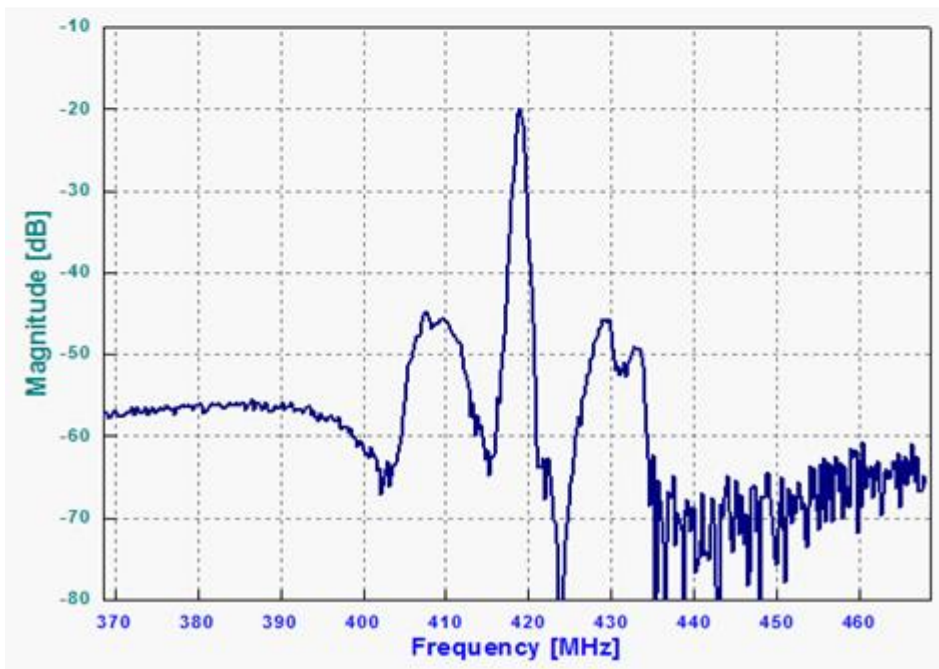


## Frequency Characteristics

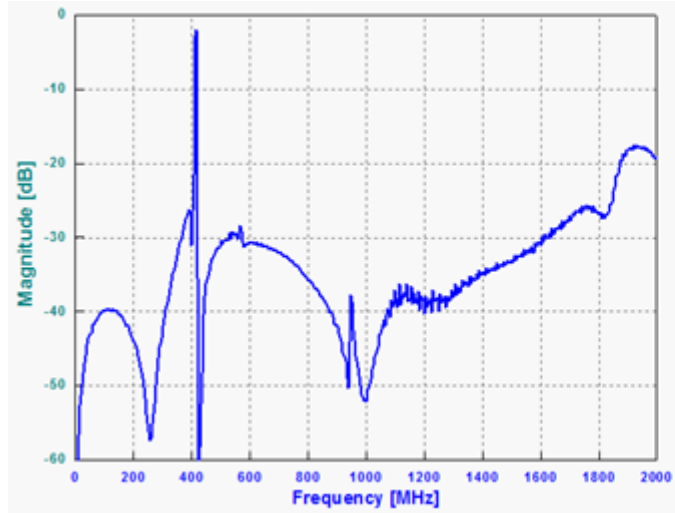
Tx to Ant, Ant to Rx



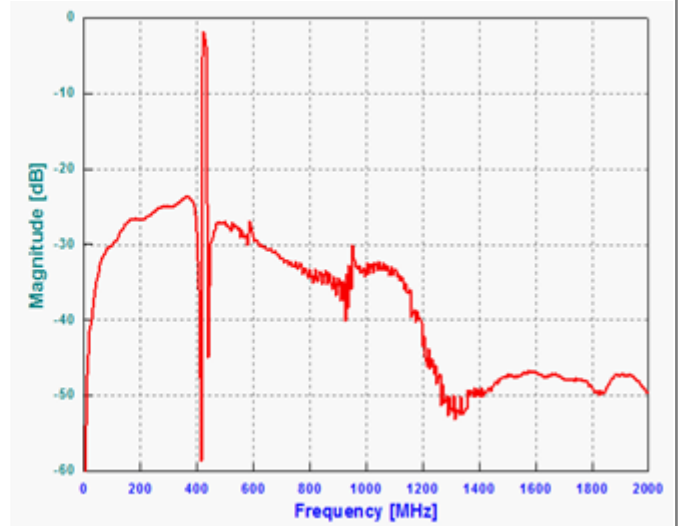
Tx to Rx Isolation



**Tx to Ant**

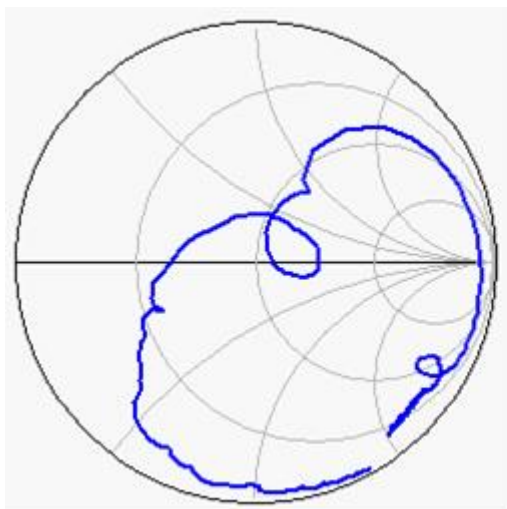


**Ant to Rx**

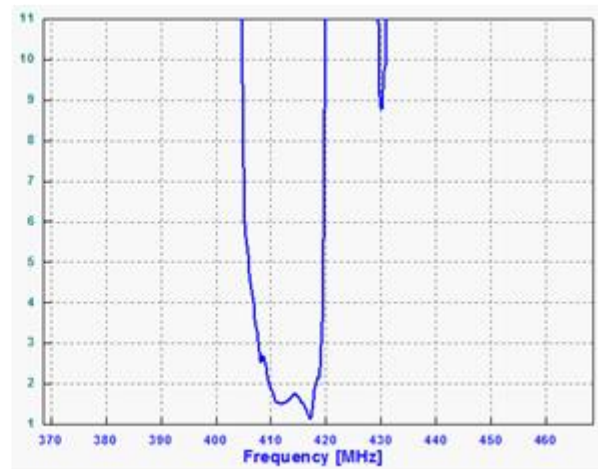


**Tx Port**

**Smith Chart**

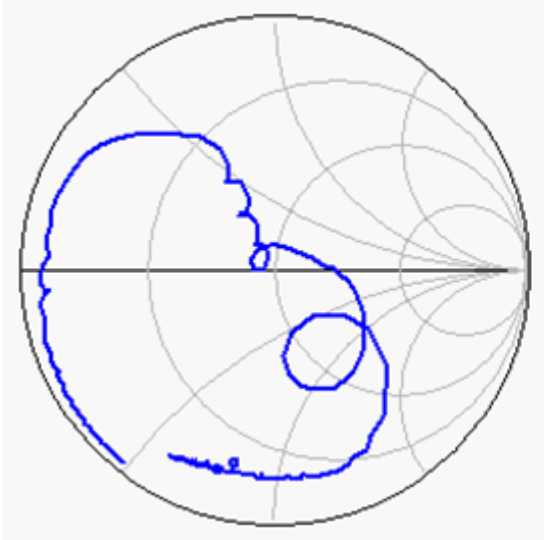


**VSWR**

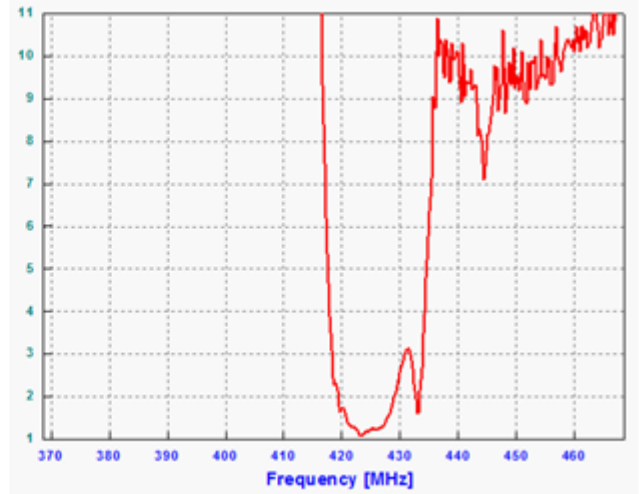


**Rx Port**

Smith Chart

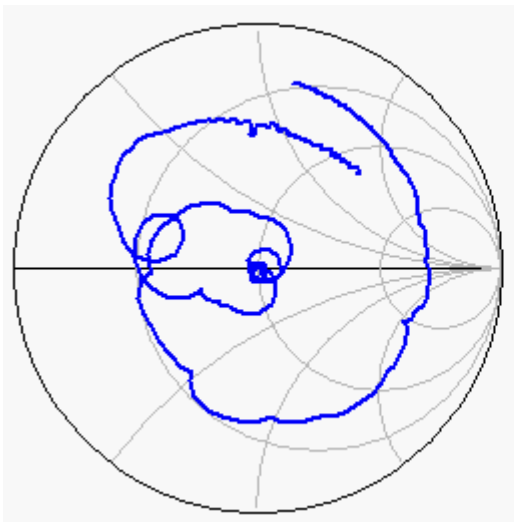


VSWR



**Ant Port**

Smith Chart



VSWR

