

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

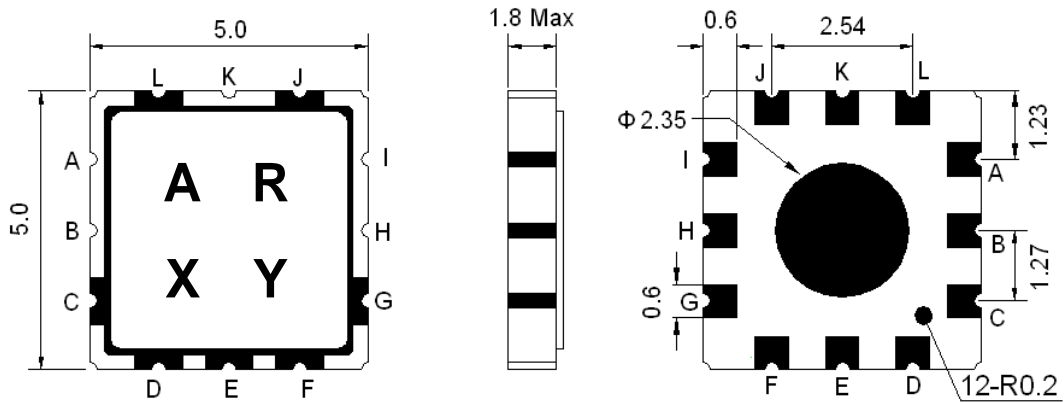
Electrical Characteristics

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) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	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	451.3 ~ 455.8	dB	-	2.2	2.8*
VSWR	451.3 ~ 455.8	-	-	1.3	2.0
Absolute Attenuation	0.3 ~ 440.0	dB	25	27	-
	461.3 ~ 465.8	dB	37*	55	-
	465.8 ~ 1700.0	dB	23	26	-
	1700.0 ~ 2000.0	dB	10	16	-
Ant → Rx		Specifications			
Insertion Loss	461.3 ~ 465.8	dB	-	2.9	4.3*
VSWR	461.3 ~ 465.8	-	-	1.3	2.2
Absolute Attenuation	0.3 ~ 451.3	dB	20	25	-
	451.3 ~ 455.8	dB	38*	52	-
	485.0 ~ 507.5	dB	25	30	-
	507.5 ~ 1200.0	dB	20	30	-
	1200.0 ~ 2000.0	dB	25	47	-
Tx → Rx		Specifications			
Isolation	451.3 ~ 455.8	dB	42*	53	-
	461.3 ~ 465.8	dB	38*	58	-

Notes : * : -10°C ~ +60°C

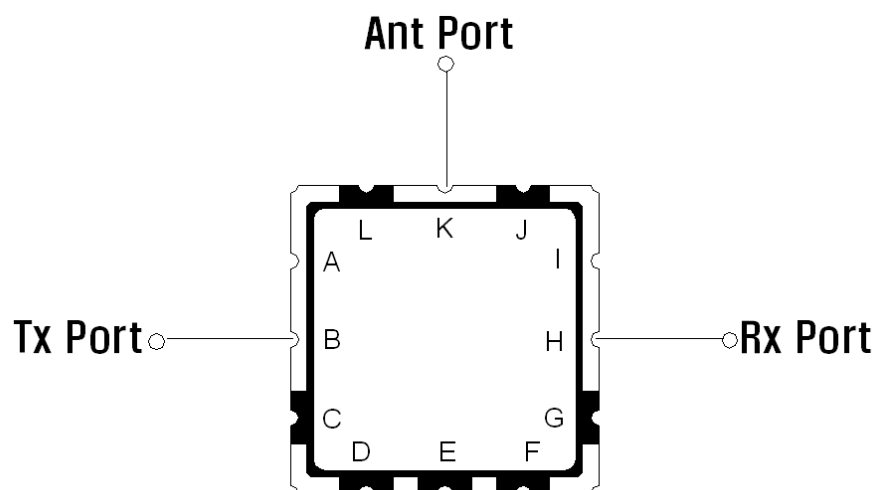
Package Dimensions



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

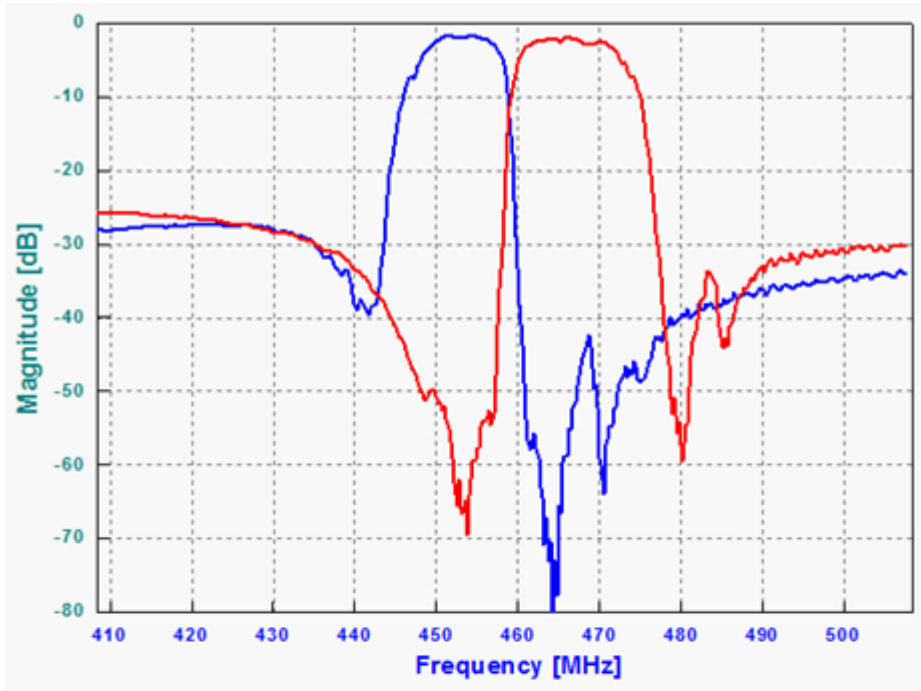
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
H	Receiver
K	Antenna
B	Transmitter

Testing Environment

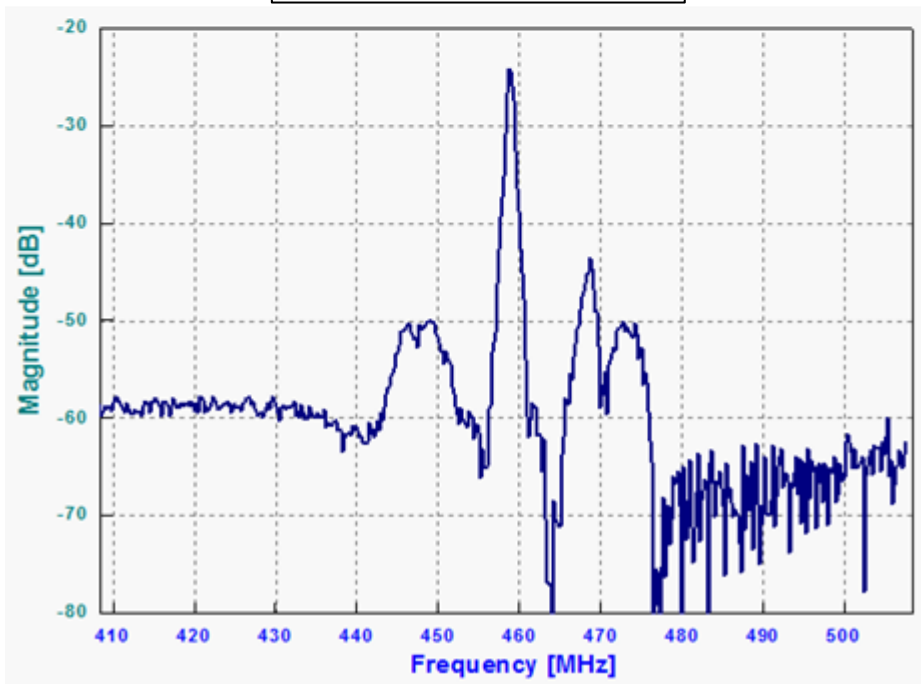


Frequency Characteristics

Tx to Ant, Ant to Rx

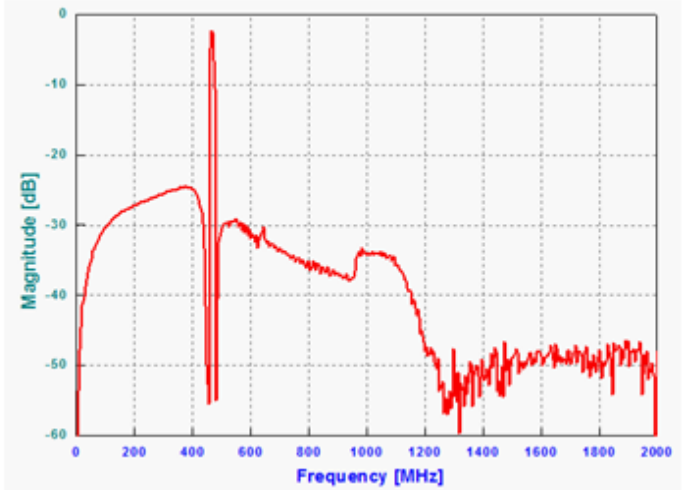
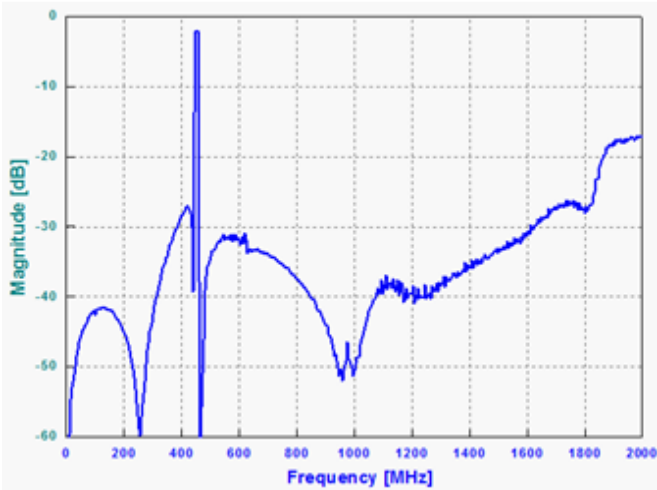


Tx to Rx Isolation



Tx to Ant

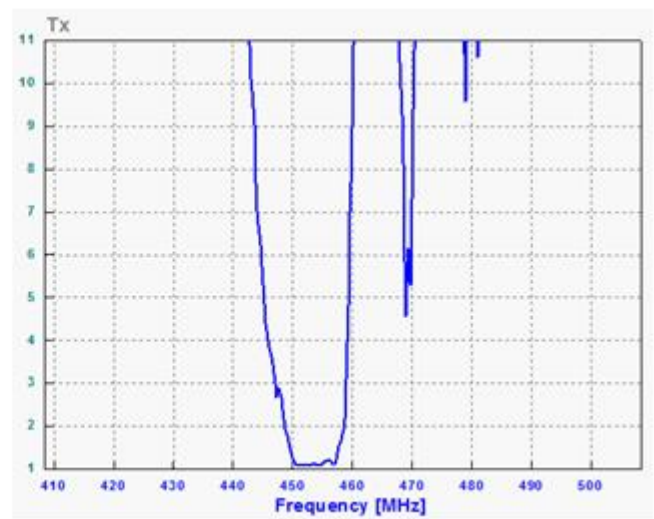
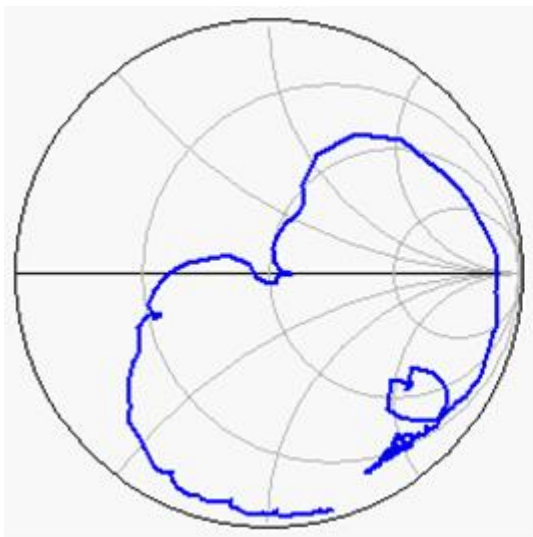
Ant to Rx



Tx Port

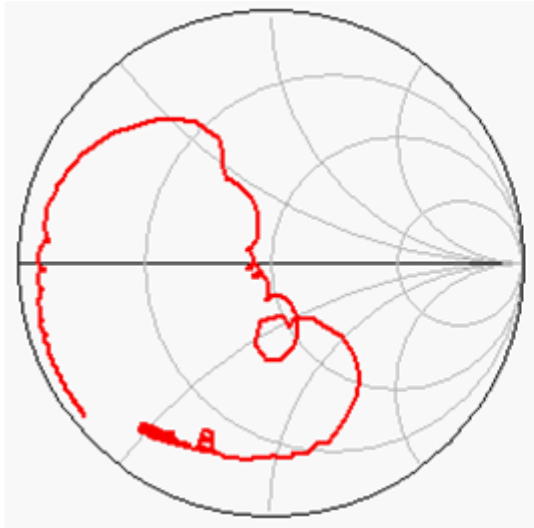
Smith Chart

VSWR

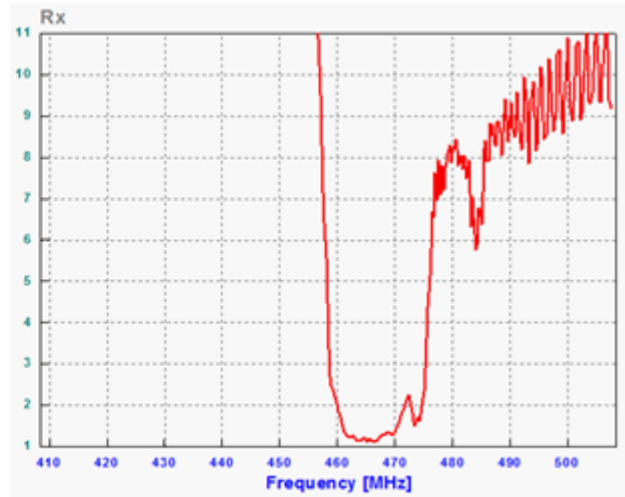


Rx Port

Smith Chart

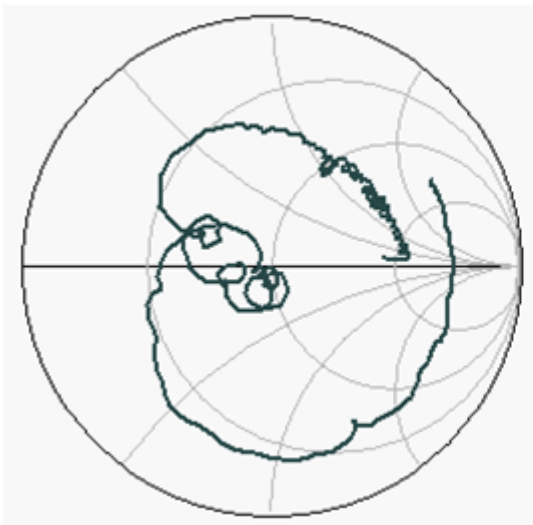


VSWR



Ant Port

Smith Chart



VSWR

