

- CDMA450 Rx Balanced SAW Duplexer For 454.5 MHz / 464.5 MHz
- Revision 0: September 2012

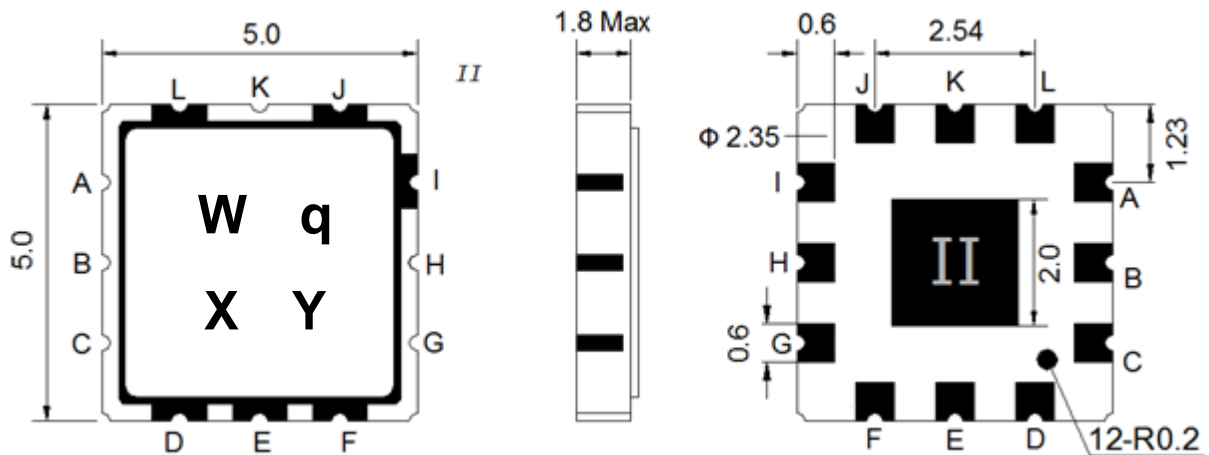
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	0	-
Input Power Level	dBm	29dBm> 50000 Hours, CW tone(Ta= +55°C)		
Antenna & Tx Impedance (single ended)	Ω	-	50	-
Rx Impedance (balanced) ⁽¹⁾	Ω	-	100	-
Package type & size	K6			
Length x Width	mm ²	-	5.0 x 5.0	-
Height	mm	-	1.8	-

ELECTRICAL SPECIFICATION					
PARAMETERS	CONDITION [MHZ]	UNIT	MINIMUM	TYPICAL	MAXIMUM
Tx (454.5MHz) → Ant		Specifications			
Insertion Loss	452.0 ~ 457.0	dB	-	2.2	3.2
VSWR	452.0 ~ 457.0	-	-	1.7	2.2
Absolute Attenuation	462.0 ~ 467.0	dB	45	55	-
Ant → Rx (464.5MHz)		Specifications			
Insertion Loss	462.0 ~ 467.0	dB	-	3.2	3.8
Amplitude Imbalance	462.0 ~ 467.0	dB	-1.0	-0.45/0.40	1.0
Phase Imbalance	462.0 ~ 467.0	deg	-15	8.0/10.0	15
VSWR	462.0 ~ 467.0	-	-	1.7	2.2
Absolute Attenuation	452.0 ~ 457.0	dB	45	52	-
Tx → Rx		Specifications			
Isolation	452.0 ~ 457.0	dB	52	63	-
	462.0 ~ 467.0	dB	52	65	-

Notes : (1) No Matching Network .

Package Dimensions



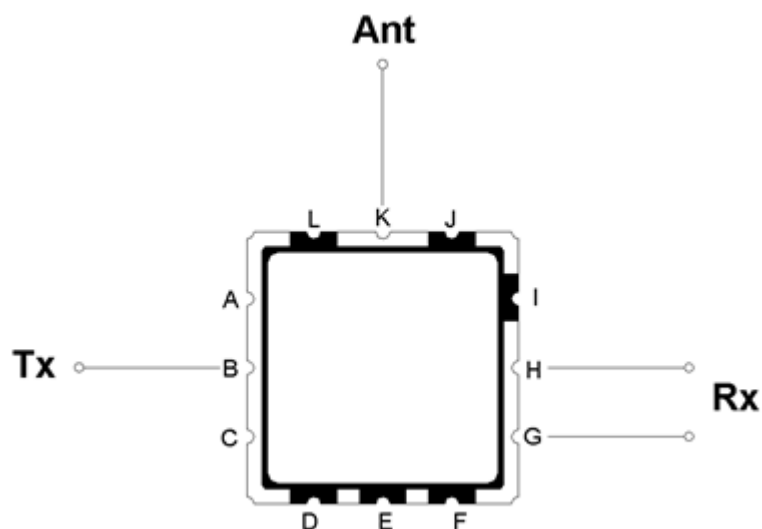
Marking Descriptions

W	CDMA450 Application
q	Series Number
X	Date Code (Year)
Y	Date Code (Month)

Pin Description

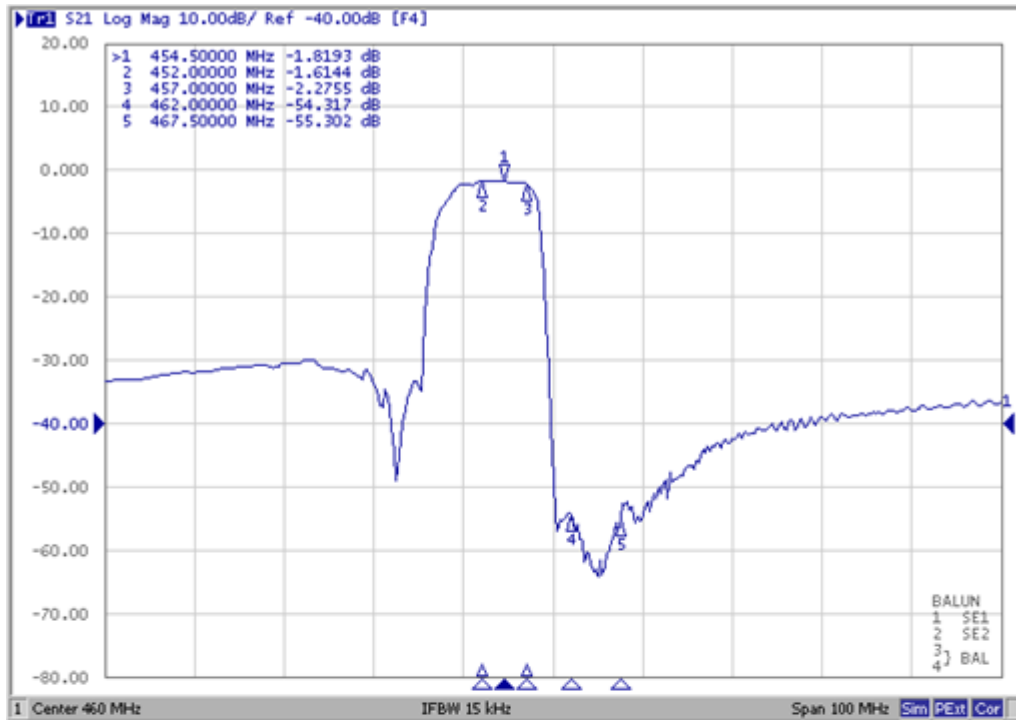
A, C, D, E, F, I, J, L	Ground
K	Antenna
B	Tx(454.5MHz)
G, H	Rx Balanced(464.5MHz)

Testing Environment

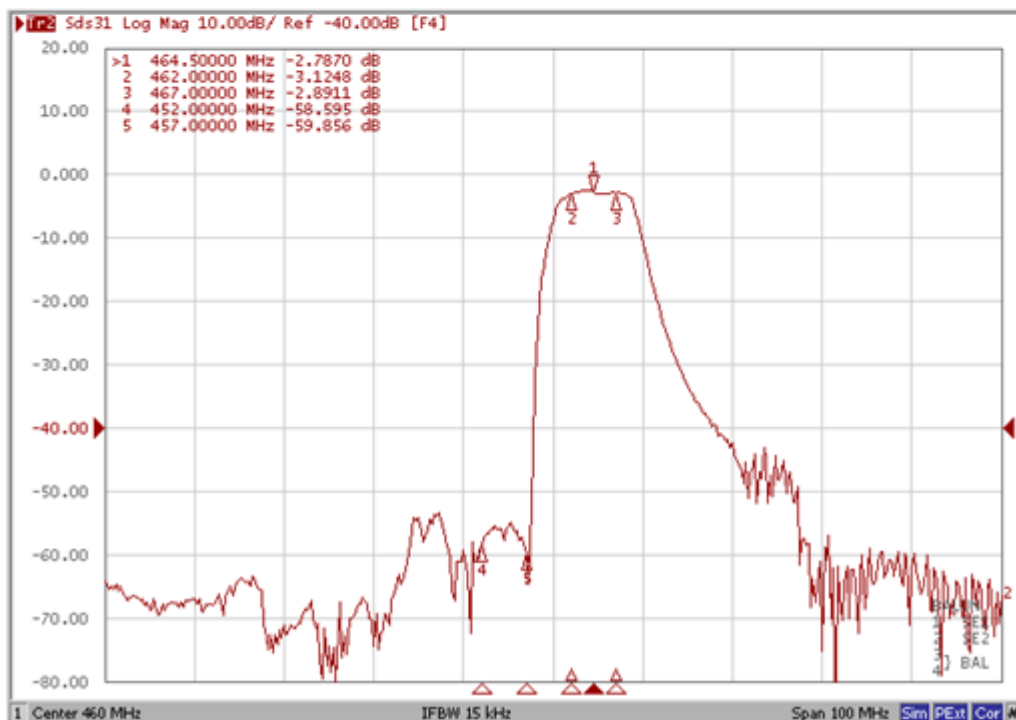


Frequency Characteristics

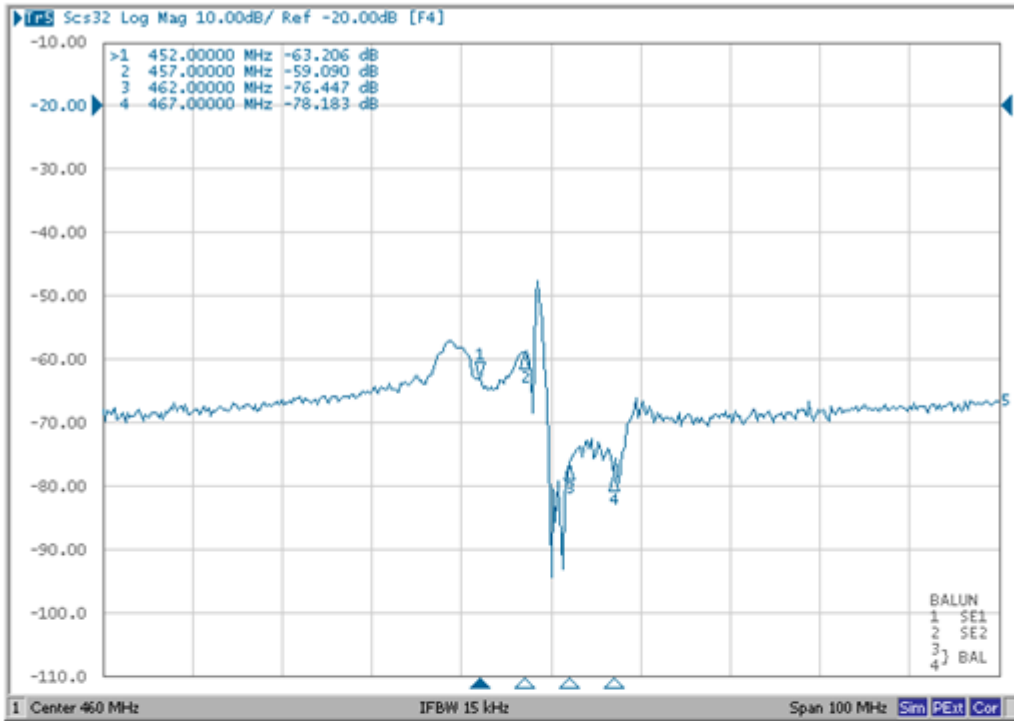
Tx to Ant



Ant to Rx

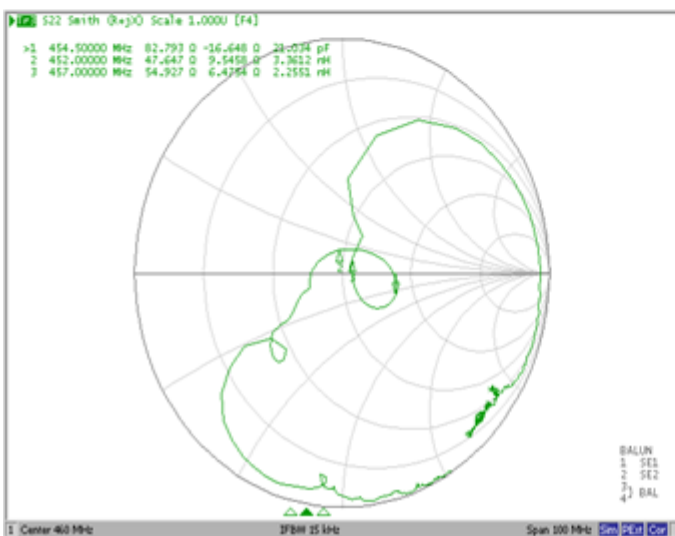


Isolation

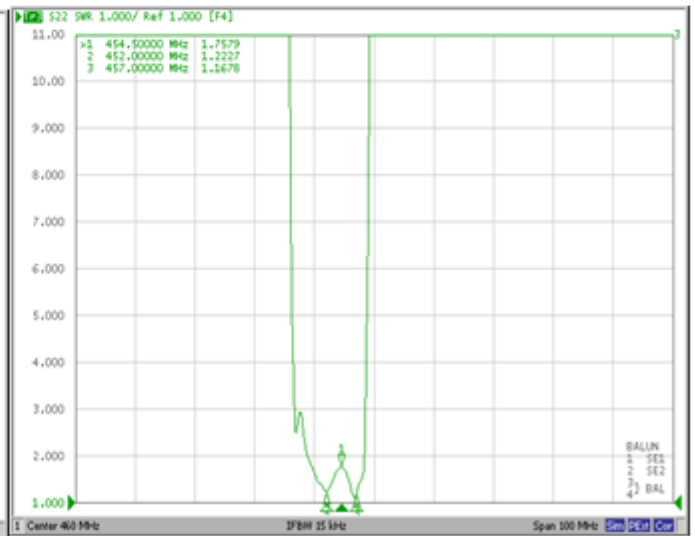


Tx Port

Smith Chart



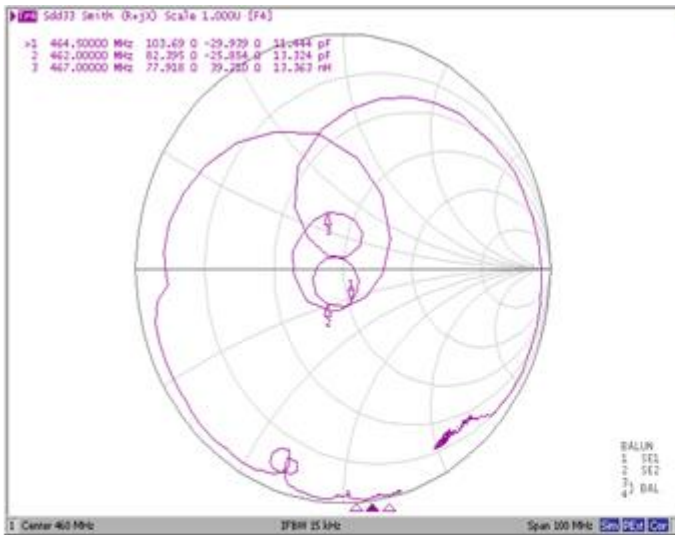
VSWR



Rx Port

Smith Chart

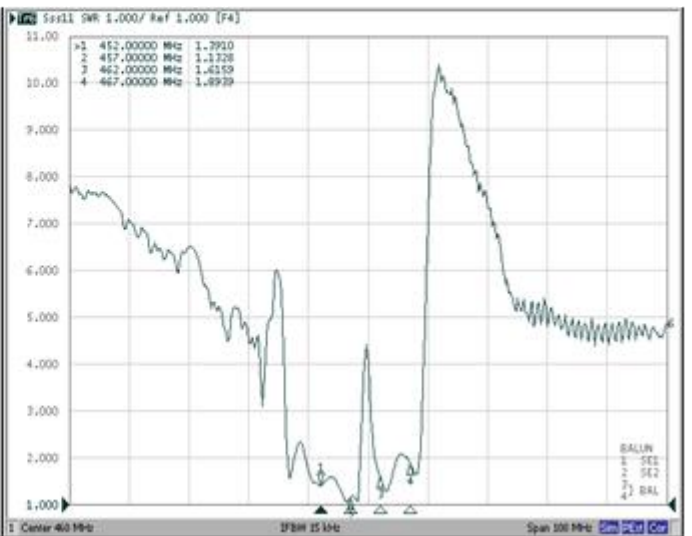
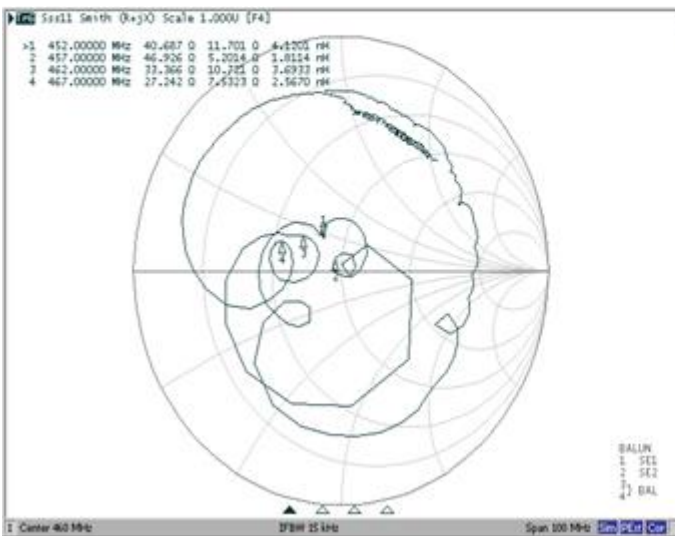
VSWR



Ant Port

Smith Chart

VSWR



Amplitude Imbalance



Phase Imbalance

