

- SAW Duplexer For 822.5MHz / 867.5MHz
- Revision 1: March 2012

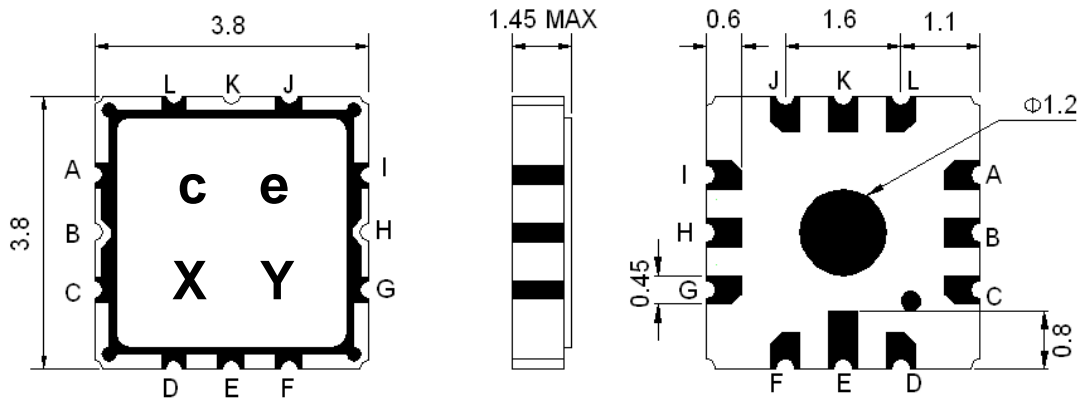
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-5	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	0	-
Maximum Input Power	W	0.5 W > 50,000 Hours, CW tone(Ta= +50°C)		
Input Impedance	Ω	-	50	-
Output Tx Impedance	Ω	-	50	-
Output Rx Impedance	Ω	-	50	-
Package type	P3			
Length x Width	mm ²	-	3.8 x 3.8	-
Height	mm	-	-	1.45

ELECTRICAL SPECIFICATION					
PARAMETERS	CONDITION [MHZ]	UNIT	MINIMUM	TYPICAL	MAXIMUM
Ant → Rx (822.5MHz)		Specifications			
Insertion Loss	815.0 ~ 830.0	dB	-	1.5	3.0
Amplitude Ripple	815.0 ~ 830.0	dB _{p-p}	-	0.5	1.2
VSWR	815.0 ~ 830.0	-	-	1.55	2.0
Absolute Attenuation	800.0	dB	25	40	-
	845.0	dB	25	40	-
	860.0 ~ 875.0	dB	40	46	-
	2nd Harmonic	dB	40	52	-
	3rd Harmonic	dB	30	40	-
Tx (867.5MHz) → Ant		Specifications			
Insertion Loss	860.0 ~ 875.0	dB	-	1.5	3.0
Amplitude Ripple	860.0 ~ 875.0	dB _{p-p}	-	0.4	1.2
VSWR	860.0 ~ 875.0	-	-	1.55	2.0
Absolute Attenuation	845.0	dB	25	40	-
	890.0	dB	15	47	-
	815.0 ~ 830.0	dB	40	53	-
	2nd Harmonic	dB	40	50	-
	3rd Harmonic	dB	35	38	-
Tx → Rx		Specifications			
Isolation	815.0 ~ 830.0	dB	40	43	-
	860.0 ~ 875.0	dB	40	48	-

Notes : (1) No Matching Network .

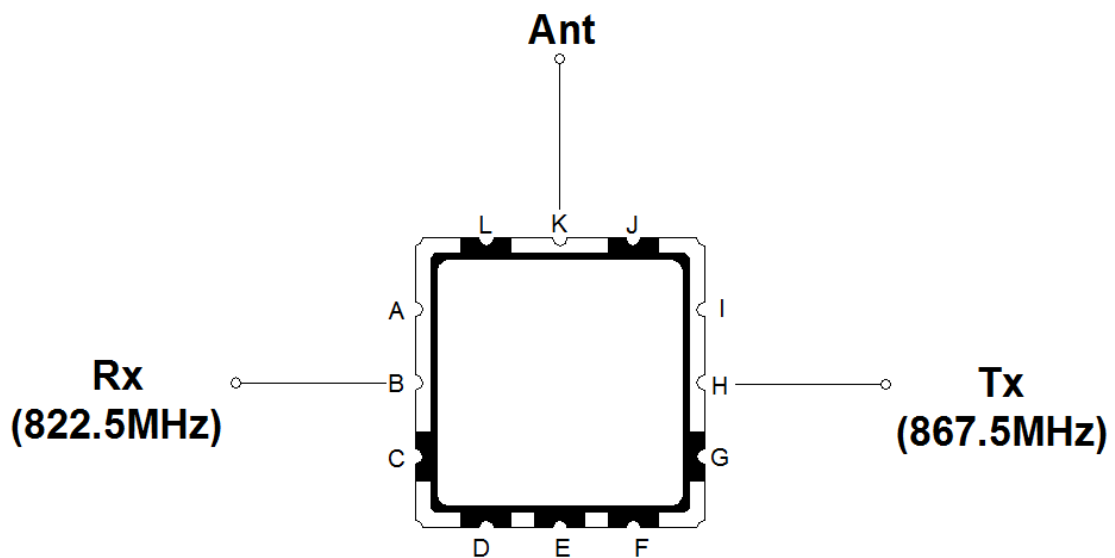
Package Dimensions



Marking Descriptions	
c	Wireless Application
e	Series Number
X	Date Code (Year)
Y	Date Code (Month)

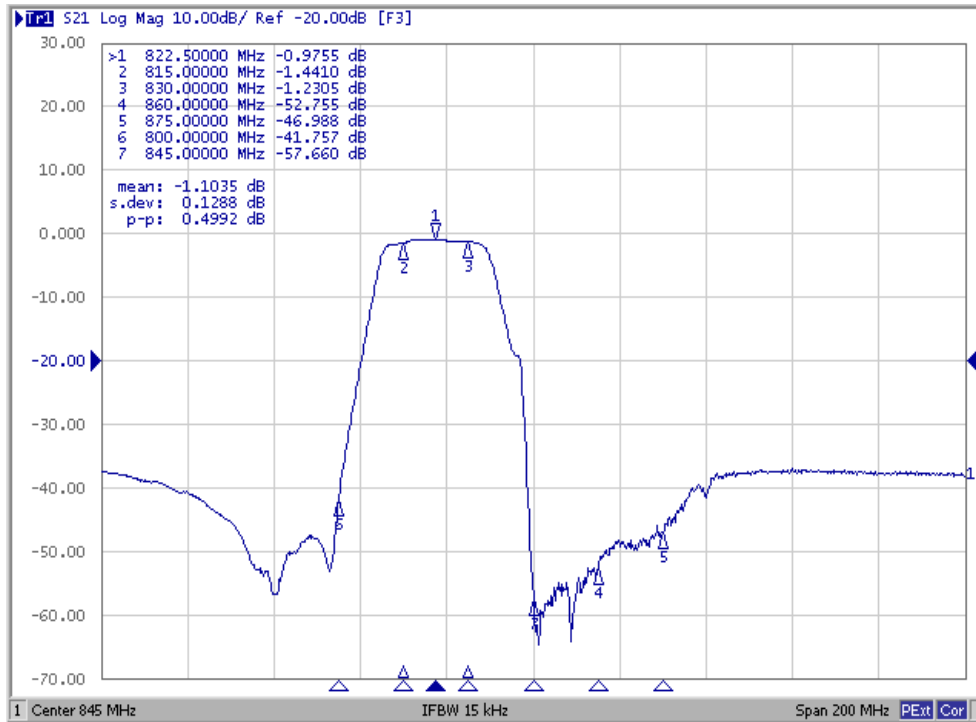
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
K	Ant
B	Rx (822.5MHz)
H	Tx (867.5MHz)

Testing Environment

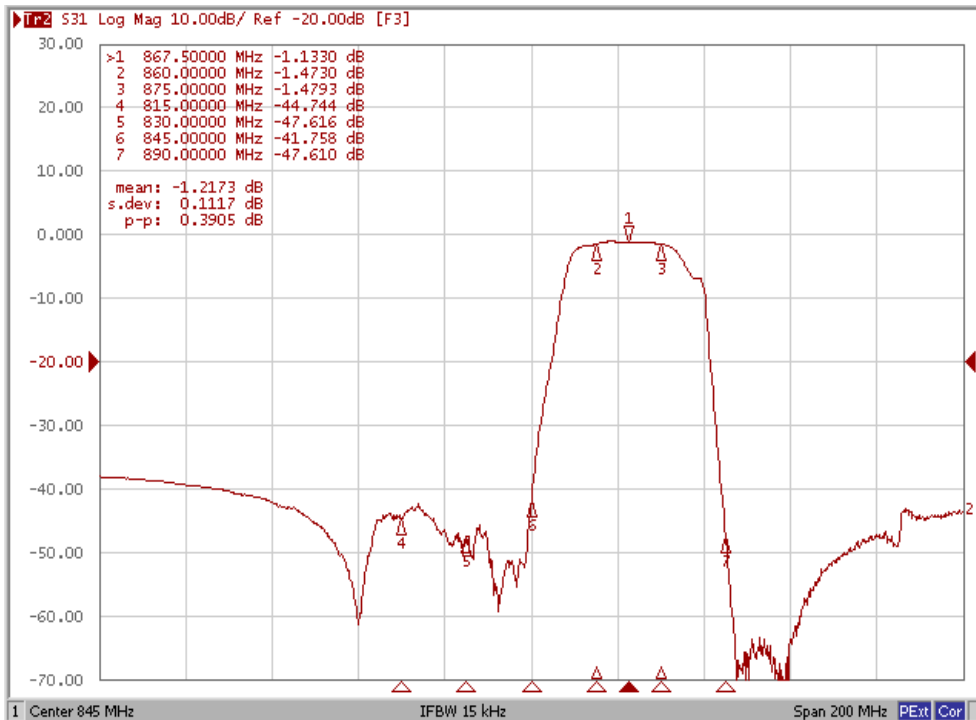


Frequency Characteristics

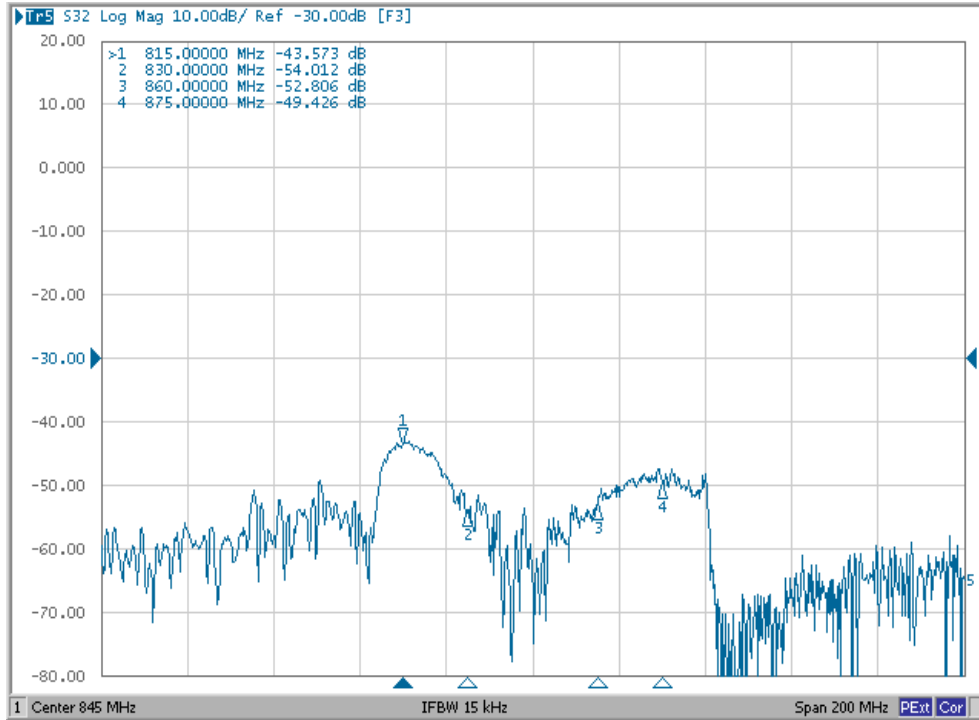
Ant to Rx



Tx to Ant

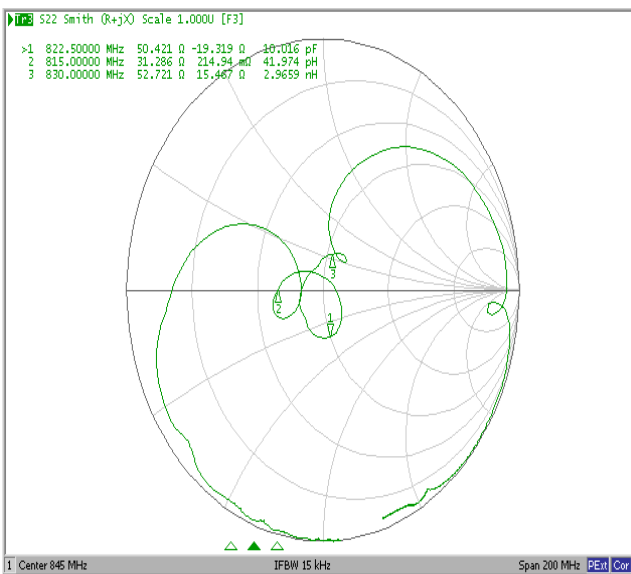


Isolation

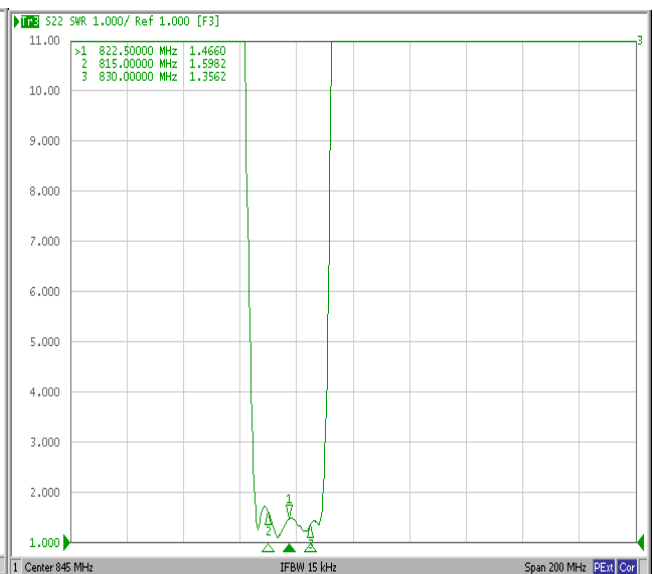


Rx Part

Smith Chart

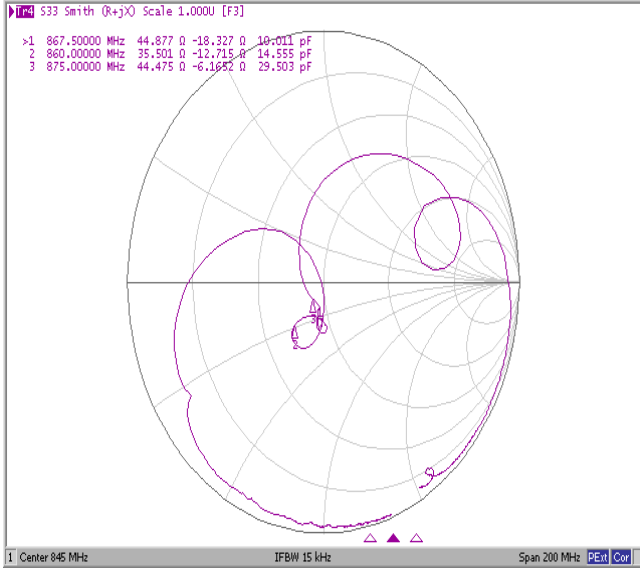


VSWR

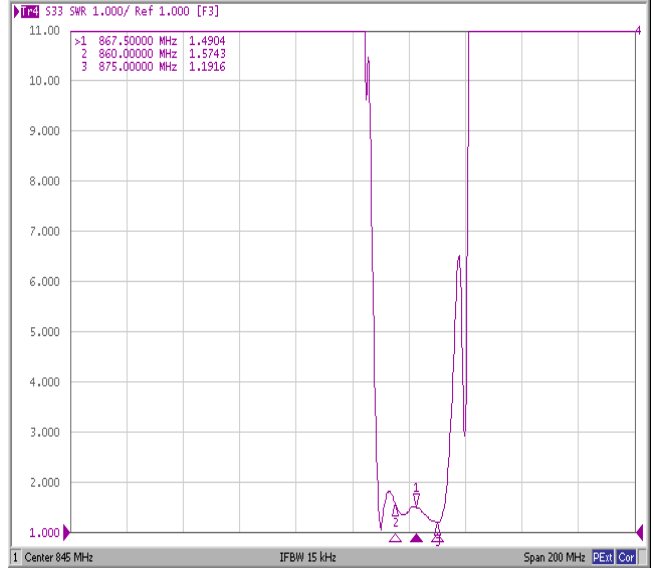


Tx Part

Smith Chart

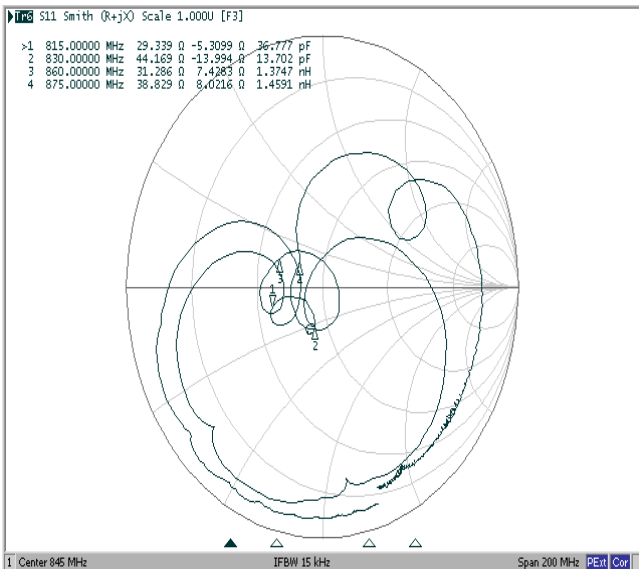


VSWR



Antenna

Smith Chart



VSWR

