

- SAW Duplexer For 837.5MHz / 882.5MHz
- Revision 0: August 2012

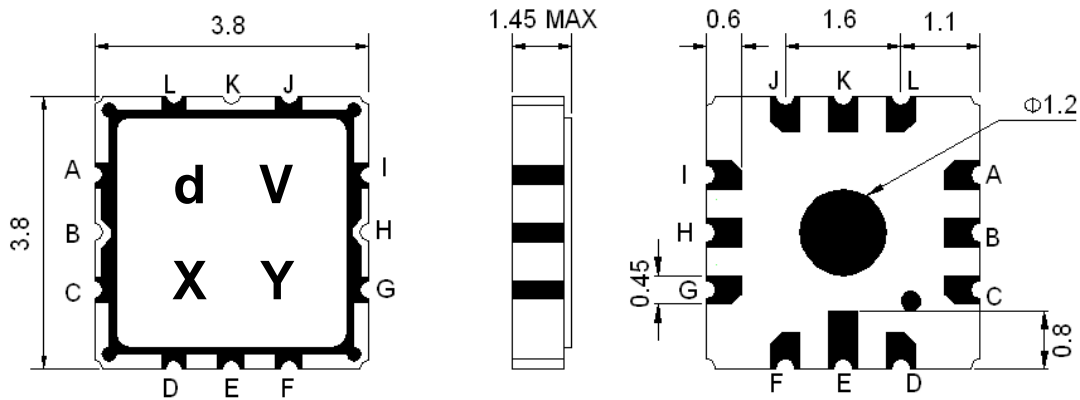
Electrical Characteristics

MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-10	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	0	-
Maximum Input Power	dBm	30dBm > 50000 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 (837.5MHz)		Specifications			
Insertion Loss	830.0 ~ 845.0	dB	-	1.7	3.0
Amplitude Ripple	830.0 ~ 845.0	dB _{p-p}	-	0.6	1.2
VSWR	830.0 ~ 845.0	-	-	1.5	2.0
Attenuation	DC ~ 810.0	dB	30	35	-
	810.0	dB	30	48	-
	865.0	dB	30	55	-
	1660.0~1690.0	dB	40	47	-
	2490.0 ~ 2535.0	dB	30	35	-
Tx (882.5MHz) → Ant		Specifications			
Insertion Loss	875.0 ~ 890.0	dB	-	1.6	3.0
Amplitude Ripple	875.0 ~ 890.0	dB _{p-p}	-	0.6	1.2
VSWR	875.0 ~ 890.0	-	-	1.6	2.0
Attenuation	DC ~ 855.0	dB	30	37	-
	855.0	dB	30	55	-
	910.0	dB	30	55	-
	1750.0 ~ 1780.0	dB	40	46	-
	2625.0 ~ 2670.0	dB	35	40	-
Rx → Tx		Specifications			
Isolation	830.0 ~ 845.0	dB	40	45	-
	875.0 ~ 890.0	dB	40	50	-

Note : (1) No Matching Network .

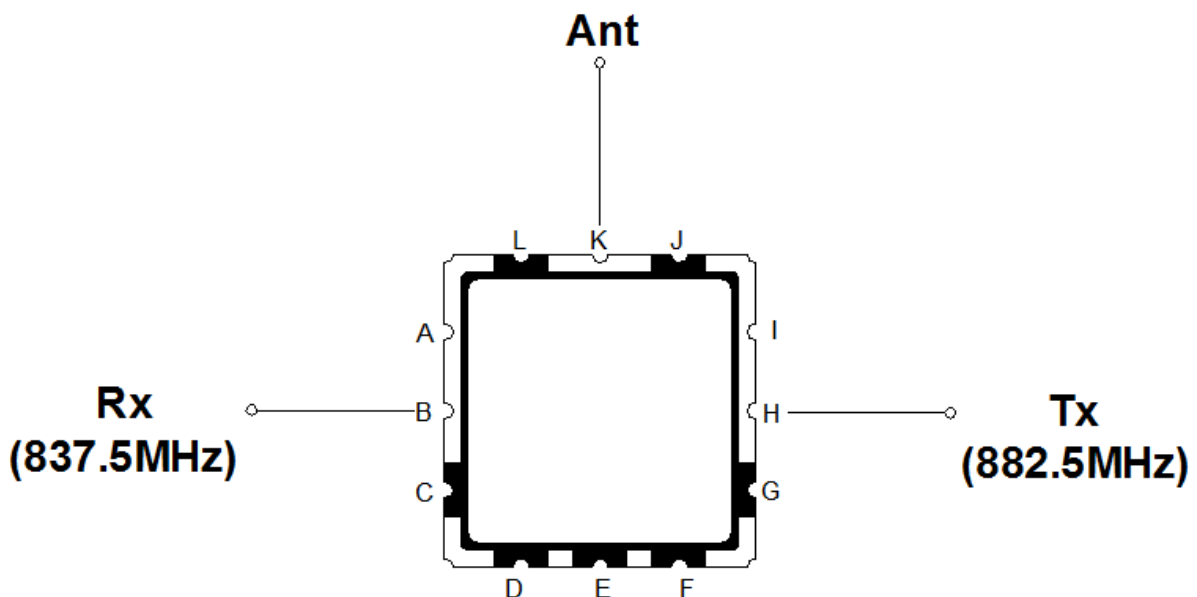
Package Dimensions



Marking Descriptions	
d	Wireless Application
V	Series Number
X	Date Code (Year)
Y	Date Code (Month)

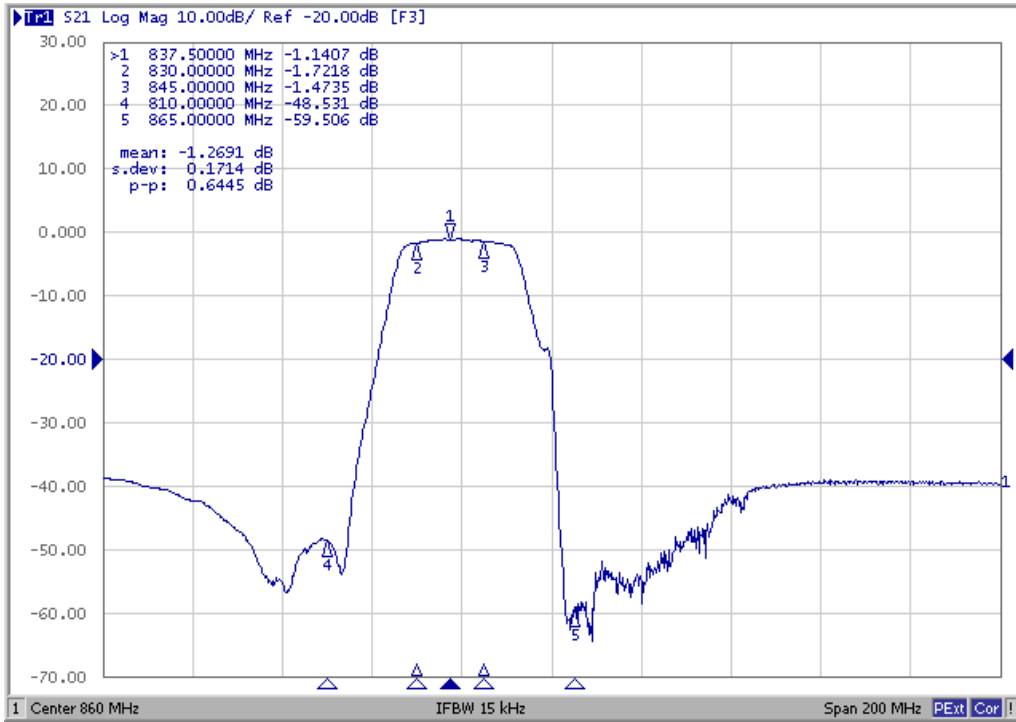
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
K	Ant
B	Rx (837.5 MHz)
H	Tx (882.5MHz)

Testing Environment

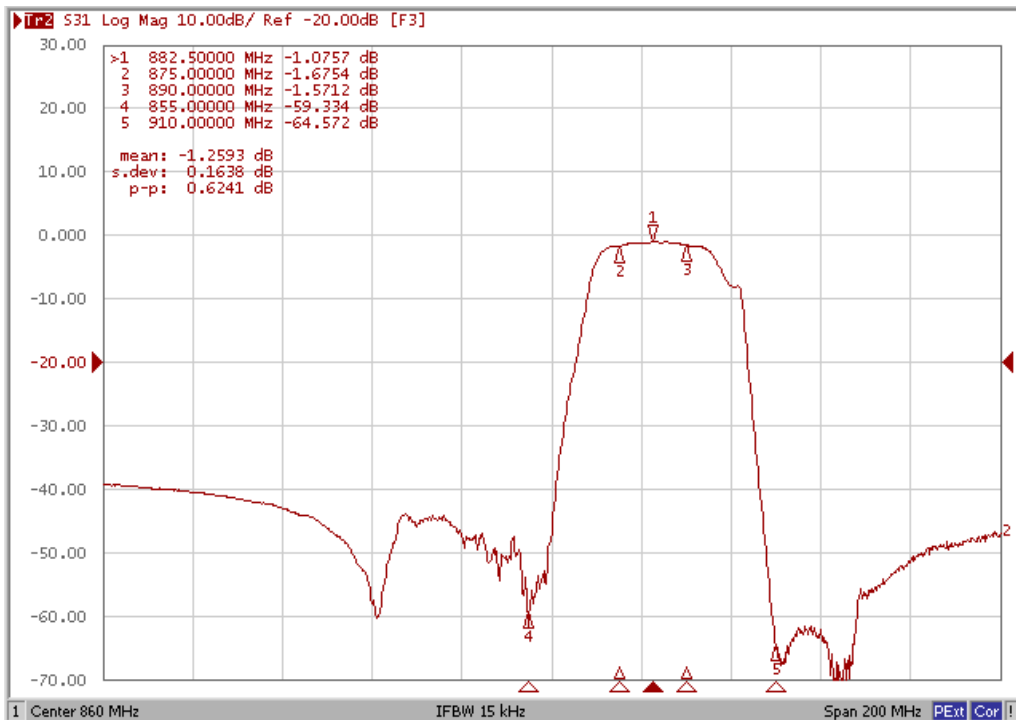


Frequency Characteristics

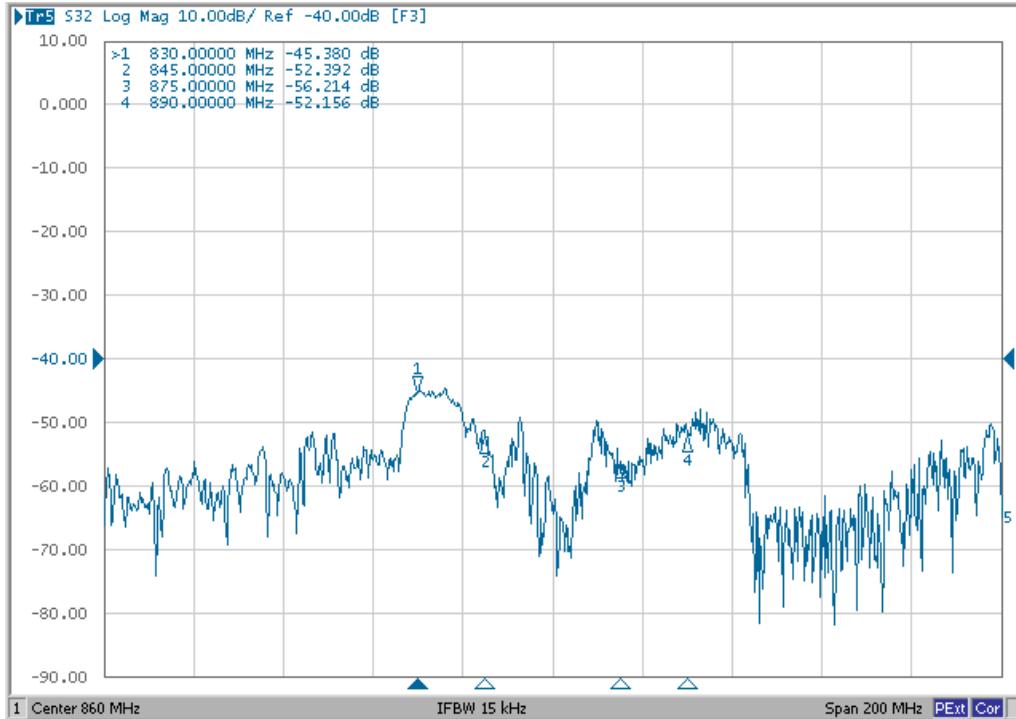
Ant to Rx



Tx to Ant

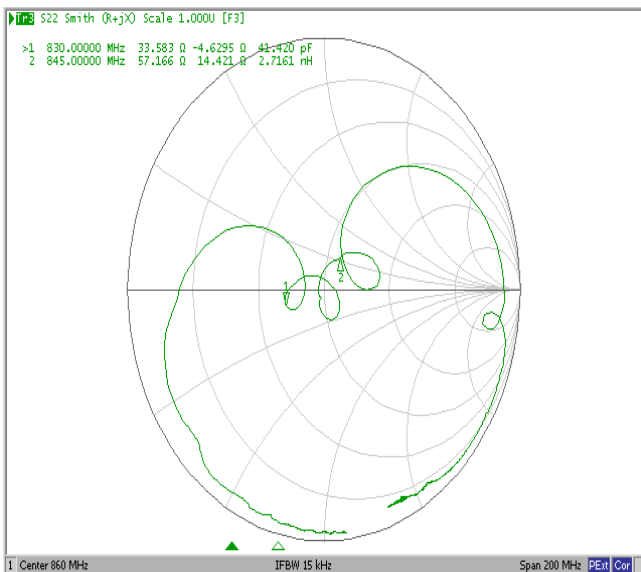


Isolation

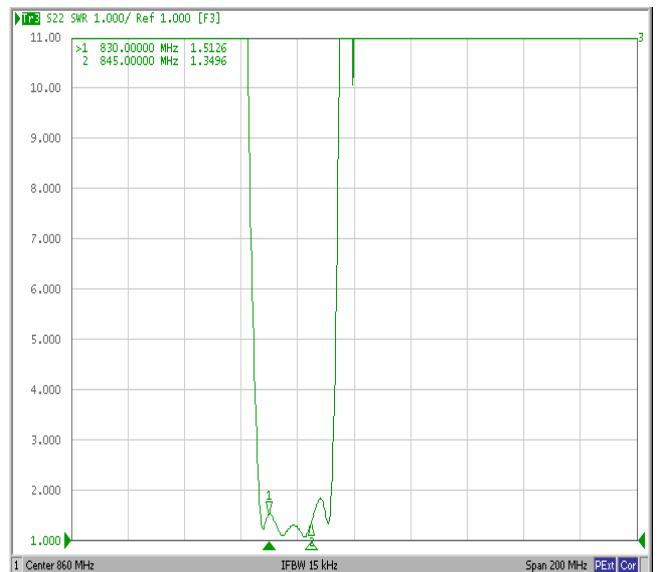


Rx Part

Smith Chart

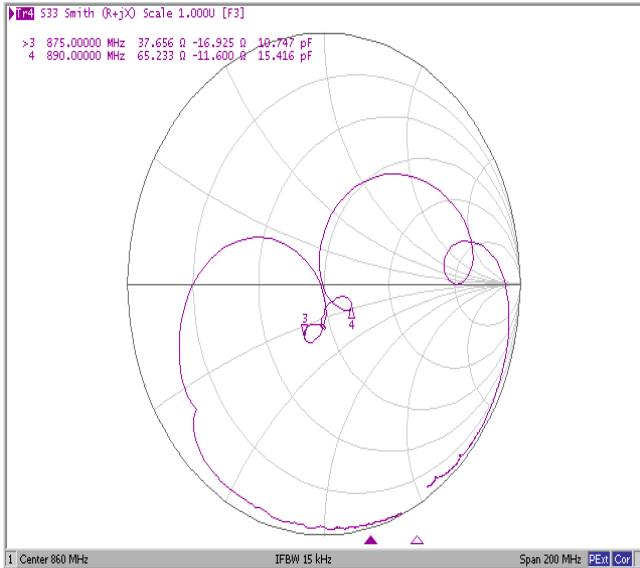


VSWR

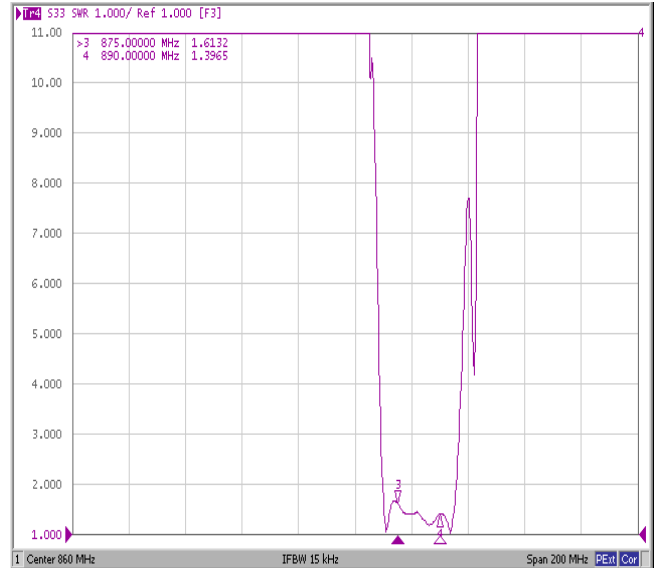


Tx Part

Smith Chart

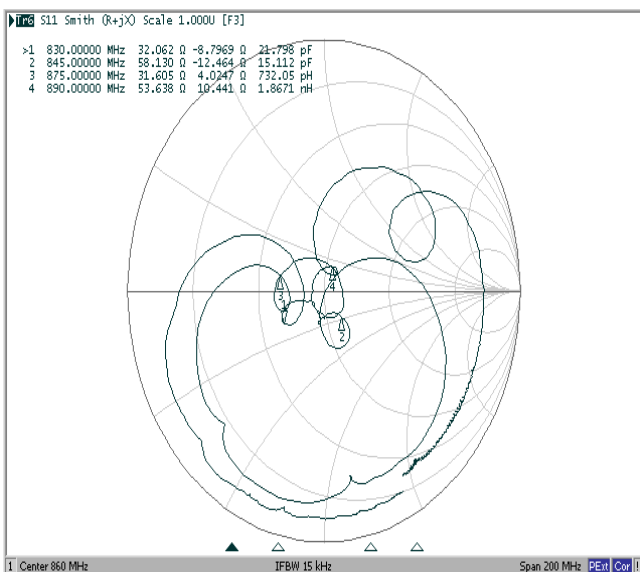


VSWR

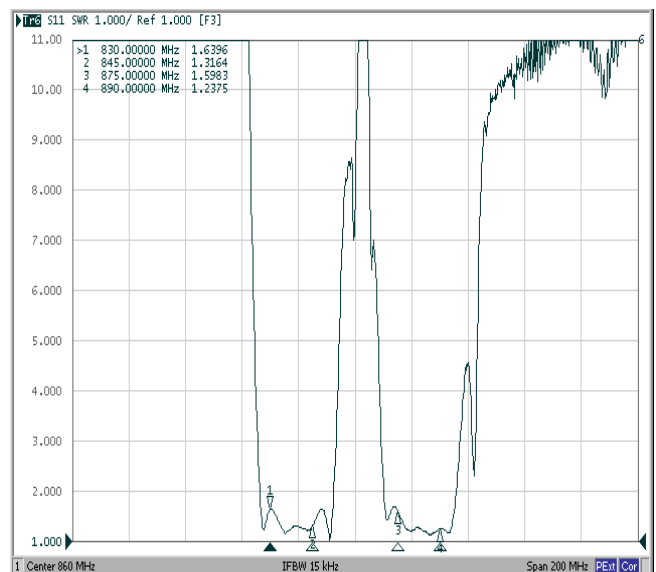


Antenna

Smith Chart



VSWR



Wide Span

