

- SAW Duplexer For 833.0/ 878.0MHz
- Revision 0: April 2014

Electrical Characteristics

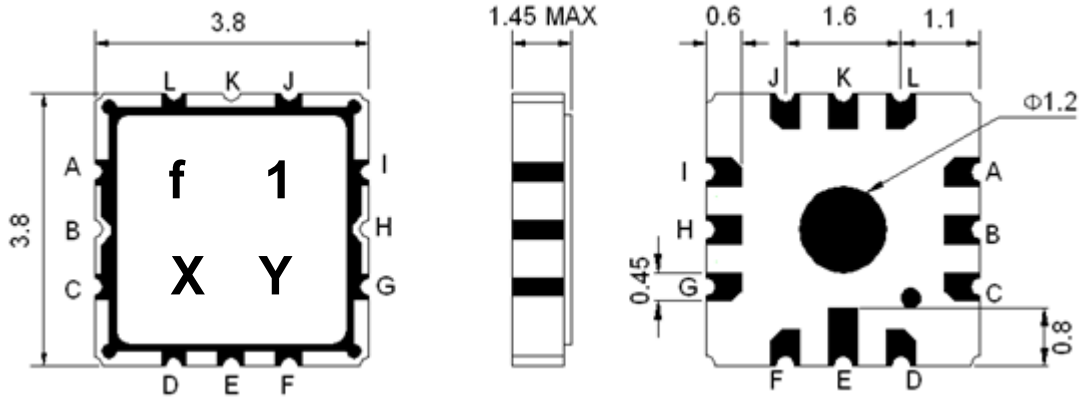
MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operation Temperature Range	°C	-10	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	0	-
Input Power Tx Band	dBm	30dBm > 50000 Hours, CW tone(Ta= +50°C)		
Input Impedance (Antenna)	Ω	-	50	-
Output TX Impedance	Ω	-	50	-
Output RX Impedance	Ω	-	50	-
Package type	S32			
Length x Width	mm ²	-	3.8 x 3.8	-
Height	mm	-	-	1.45

ELECTRICAL SPECIFICATION					
PARAMETERS	CONDITION [MHZ]	UNIT	MINIMUM	TYPICAL	MAXIMUM
Tx (833.0MHz) → Ant		Specifications			
Insertion Loss	817.0 ~ 849.0	dB	-	2.9	3.5
Amplitude Ripple	817.0 ~ 849.0	dB _{p-p}	-	1.9	2.5
VSWR	817.0 ~ 849.0	-	-	2.0	2.3
Amplitude Ripple	D.C ~ 698.0	dB	20	30	-
	698.0 ~ 787.0	dB	20	23	-
	855.5 ~ 862.0	dB	10	22	-
	862.0 ~ 894.0	dB	32	35	-
	1400.0 ~ 2155.0	dB	20	25	-
	2451.0 ~ 2547.0	dB	7	12	-

PARAMETERS	CONDITION [MHZ]	UNIT	MINIMUM	TYPICAL	MAXIMUM
Ant → Rx (878.0MHz)		Specifications			
Insertion Loss	862.0 ~ 894.0	dB	-	2.5	3.5
Amplitude Ripple	862.0 ~ 894.0	dB _{p-p}	-	1.0	2.0
VSWR	862.0 ~ 894.0	-	-	1.8	2.3
Absolute Attenuation	D.C ~ 698.0	dB	20	25	-
	698.0 ~ 787.0	dB	20	25	-
	817.0 ~ 849.0	dB	35	40	-
	849.0 ~ 855.5	dB	5	15	-
	1400.0 ~ 2155.0	dB	35	41	-
	2586.0 ~ 2682.0	dB	30	35	-
Rx → Tx		Specifications			
Isolation	862.0 ~ 894.0	dB	30	34	-
	817.0 ~ 849.0	dB	35	40	-
	849.0 ~ 862.0	dB	35	39	-

Notes : (1) With Matching Network .

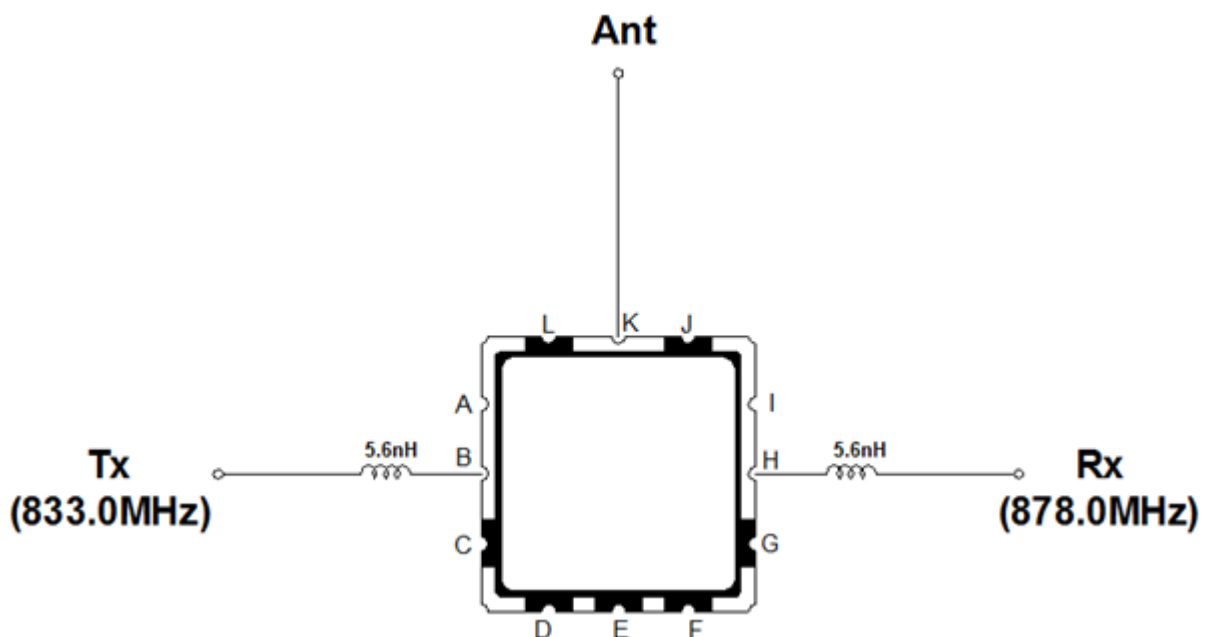
Package Dimensions



Marking Descriptions	
f	Application
1	Series Number
X	Date Code (Year)
Y	Date Code (Month)

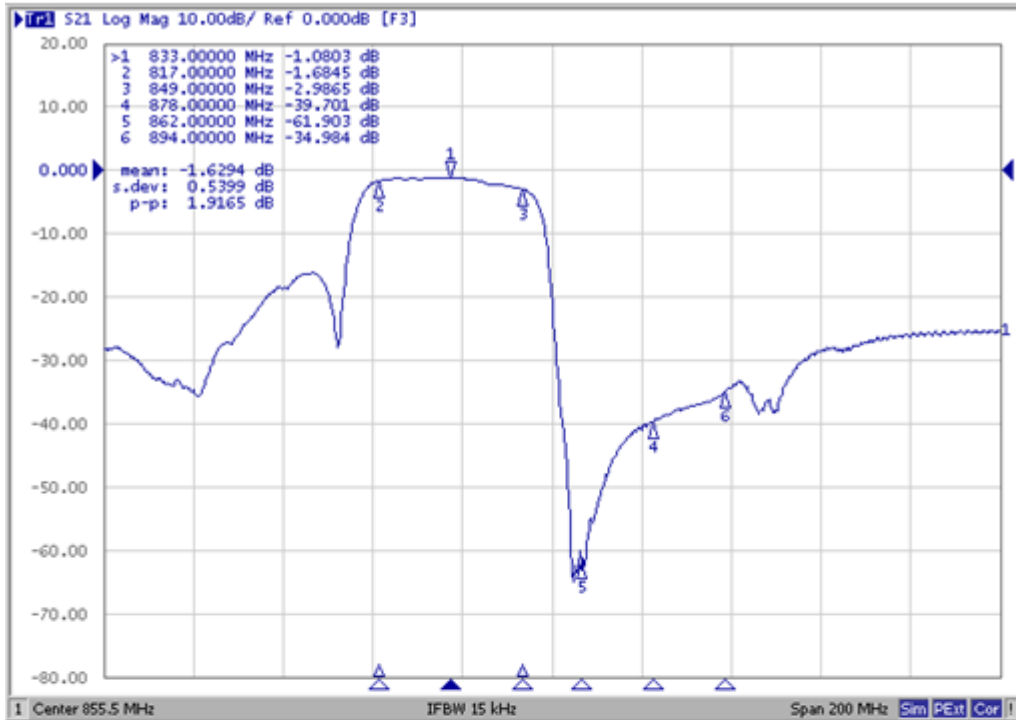
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
H	Rx Port (878.0 MHz)
K	Antenna
B	Tx Port (833.0MHz)

Testing Environment

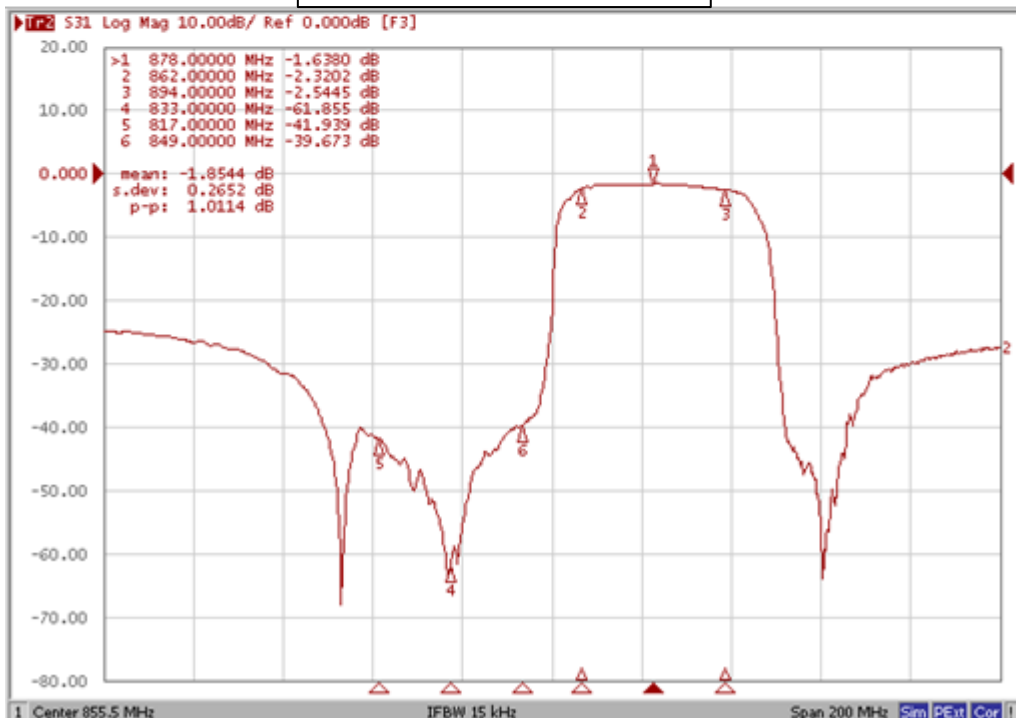


Frequency Characteristics

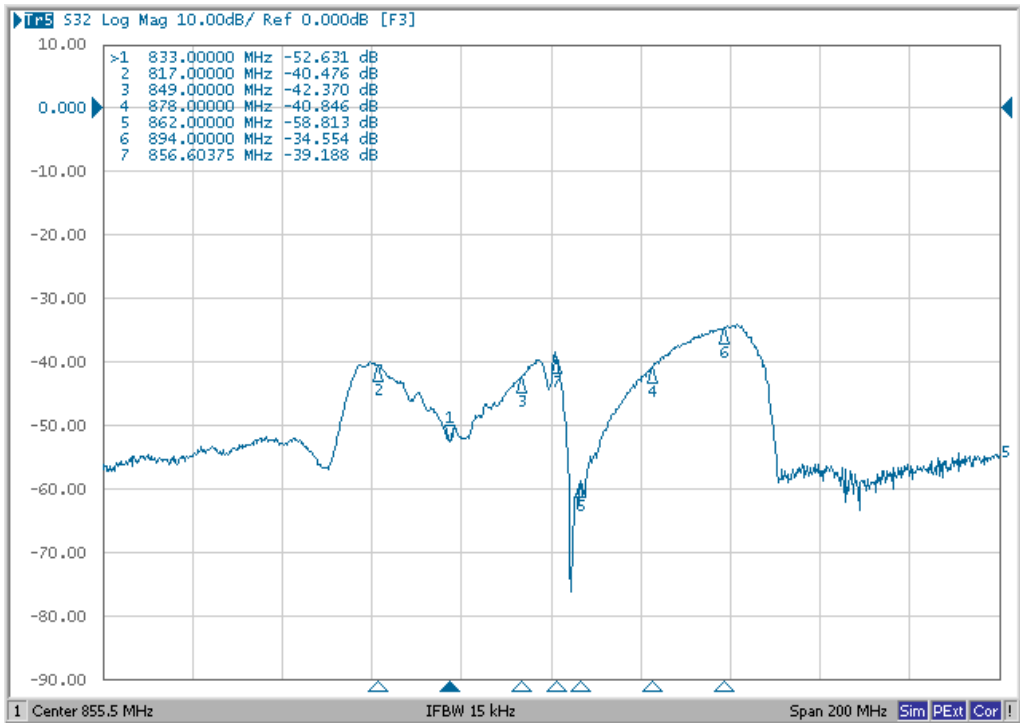
Tx Characteristic



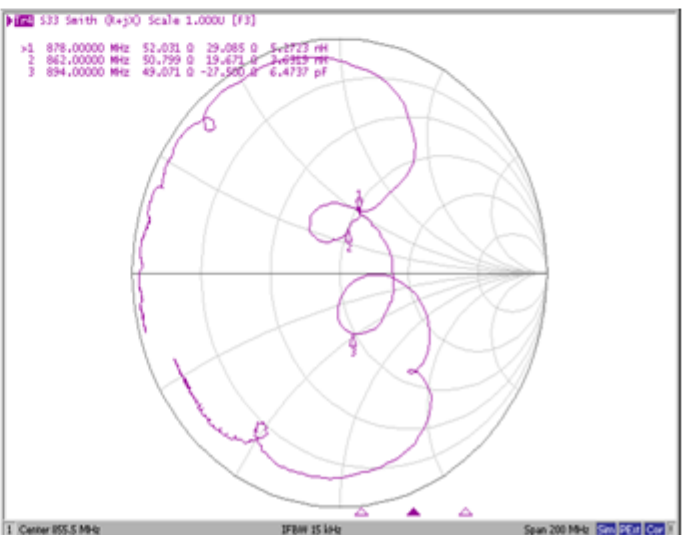
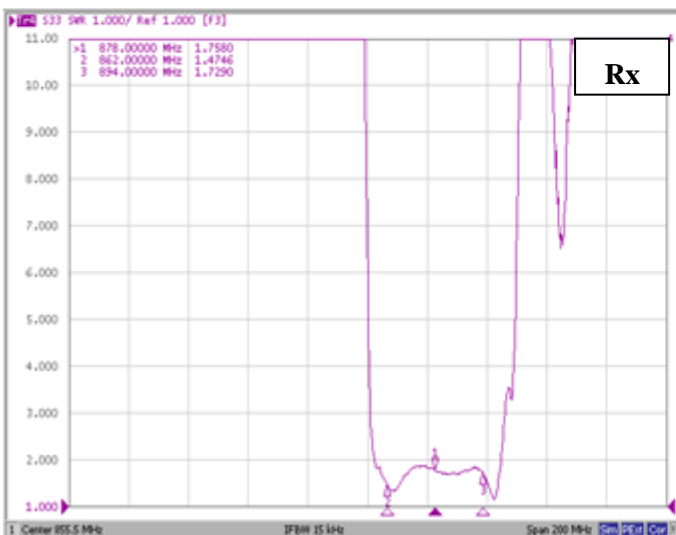
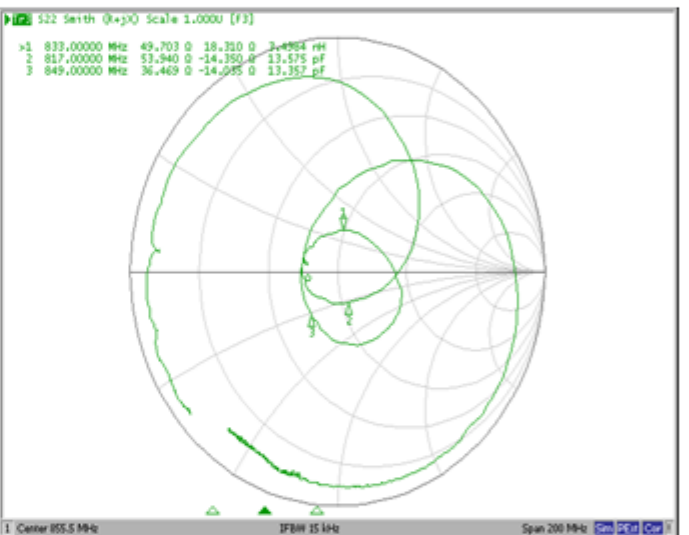
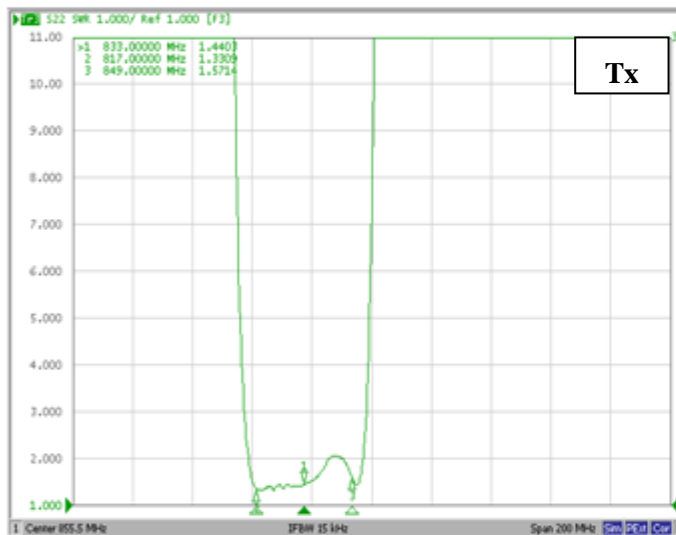
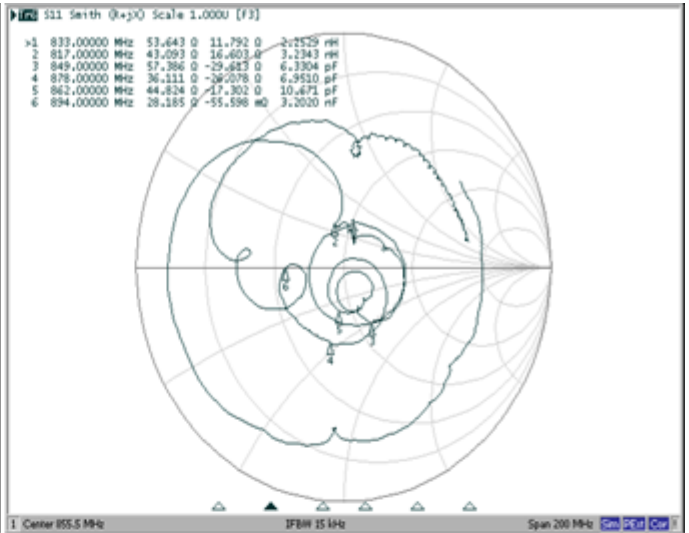
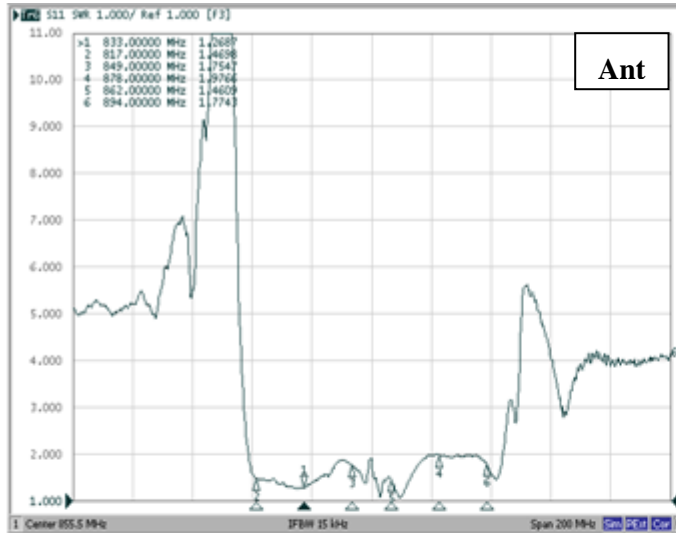
Rx Characteristic



Isolation Characteristic



Return Loss & Smith Chart



Wide Span

