



*Total Solution Provider in Saw Device*

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# SD844CP3

SAW DUPLEXER For 844.0MHz / 889.0MHz  
Revision 0: May ,2011



- Electrical Characteristics
  - Package Dimensions
  - Testing Environment
  - Frequency Characteristics
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## □ Electrical Characteristics

### Maximum Ratings

Parameters Description	Unit	Minimum	Typical	Maximum
Operation Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	0		
Maximum Input Power	W	1.0 W > 50,000 Hours, CW tone(Ta= +50°C)		
Input Impedance	Ω	50		
Output Impedance	Ω	50		
Package type & size		P3		
Length x Width	mm <sup>2</sup>	-	3.8 x 3.8	-
Height	mm	-	-	1.45

### Electrical Specification

Tx → Ant		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	839.0 ~ 849.0	dB	-	1.4	2.5
Amplitude Ripple	839.0 ~ 849.0	dB <sub>p-p</sub>	-	0.4	1.0
VSWR	839.0 ~ 849.0	-	-	1.4	2.0
Absolute Attenuation	884.0 ~ 894.0	dB	45	53	-

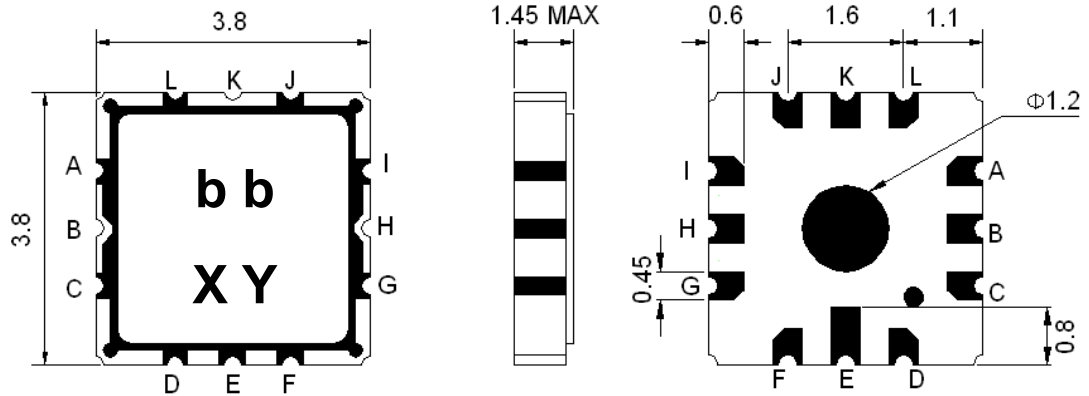
Ant → Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	884.0 ~ 894.0	dB	-	1.4	2.5
Amplitude Ripple	884.0 ~ 894.0	dB <sub>p-p</sub>	-	0.4	1.0
VSWR	884.0 ~ 894.0	-	-	1.4	2.0
Absolute Attenuation	839.0 ~ 849.0	dB	40	45	-



Rx → Tx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Isolation	839.0 ~ 849.0	dB	40	46	-
	884.0 ~ 894.0	dB	45	55	-

**Notes :** (1) No Matching Network .

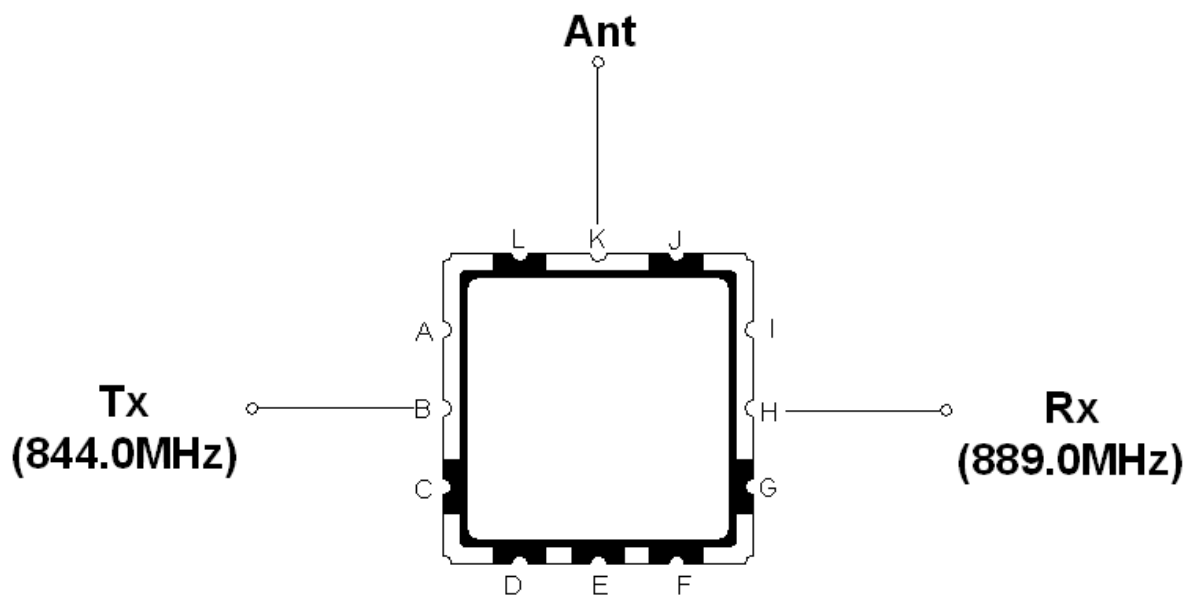
**Package Dimensions**



Marking Descriptions	
b	Wireless Application
b	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	Tx (844.0 MHz)
H	Rx (889.0MHz)

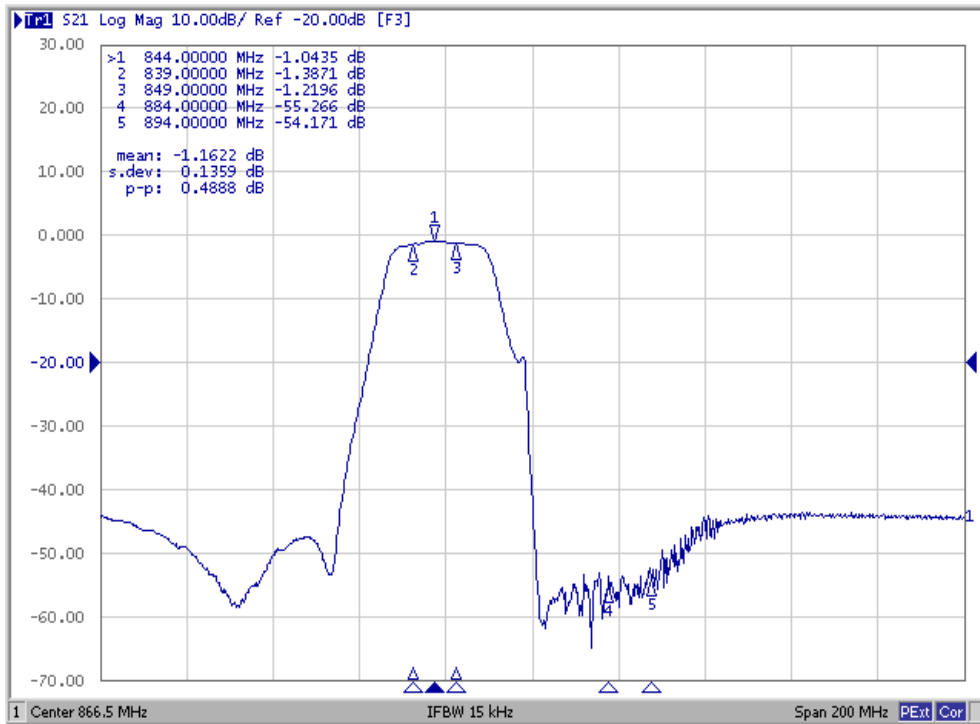
**Testing Environment**



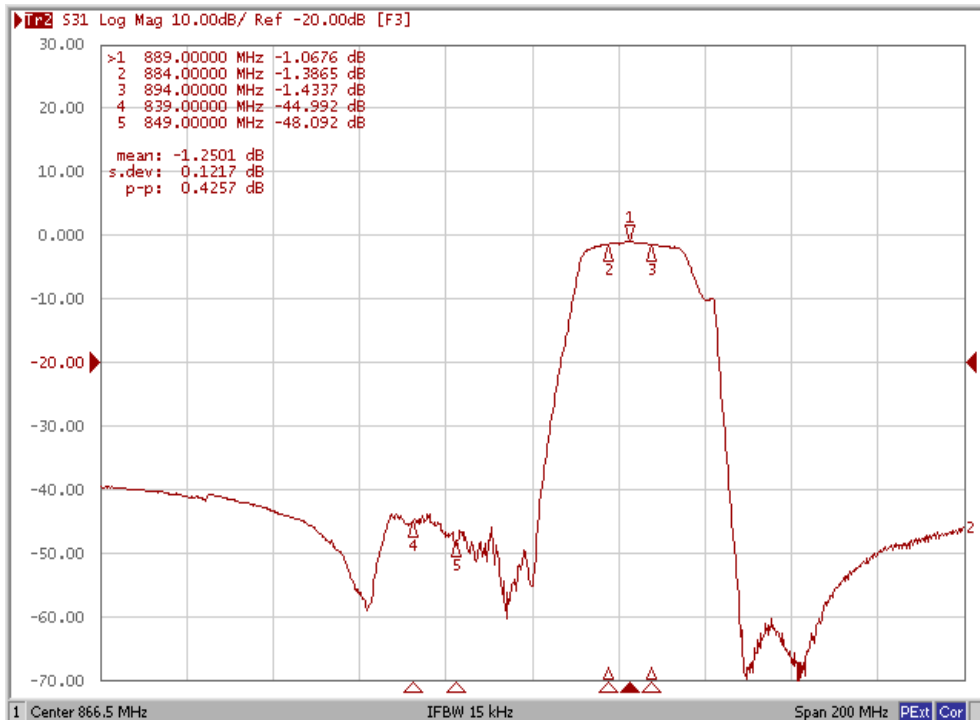


### □ Frequency Characteristics

Tx to Ant

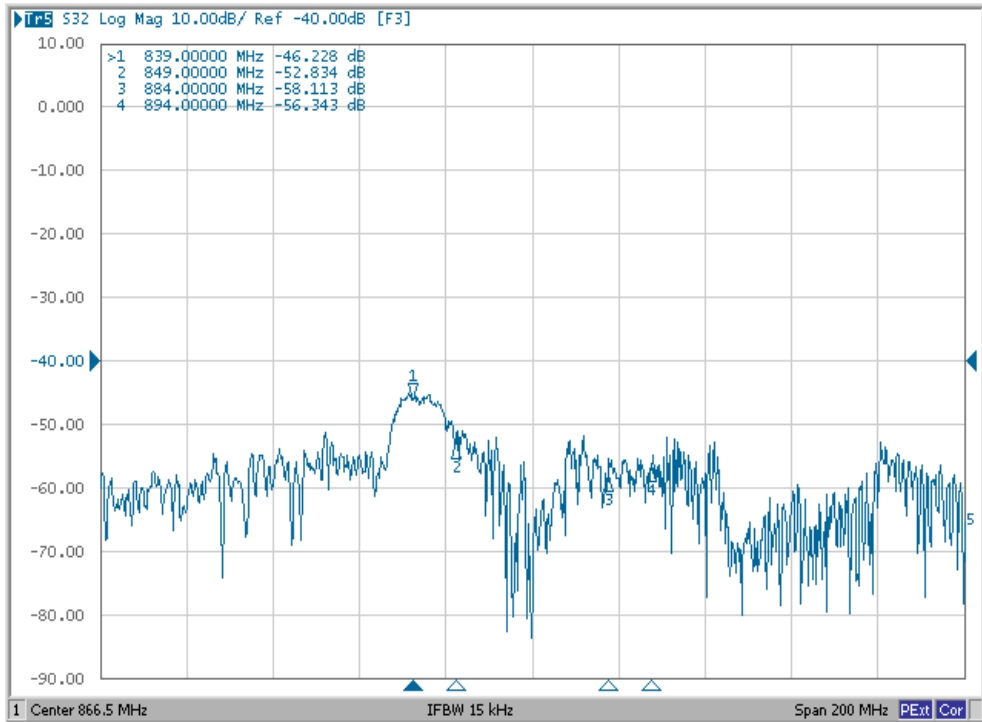


Ant to Rx



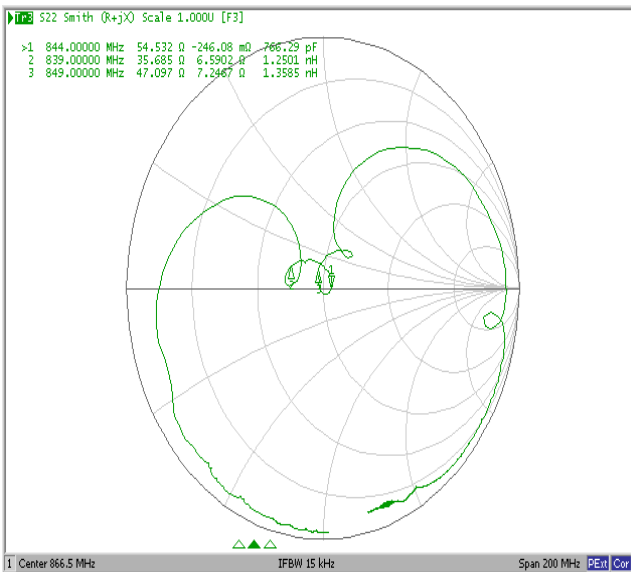


Isolation

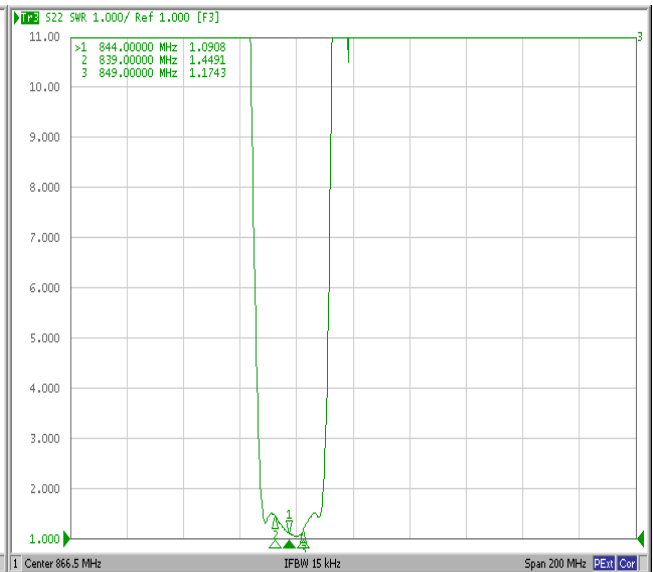


Tx Part

Smith Chart



VSWR

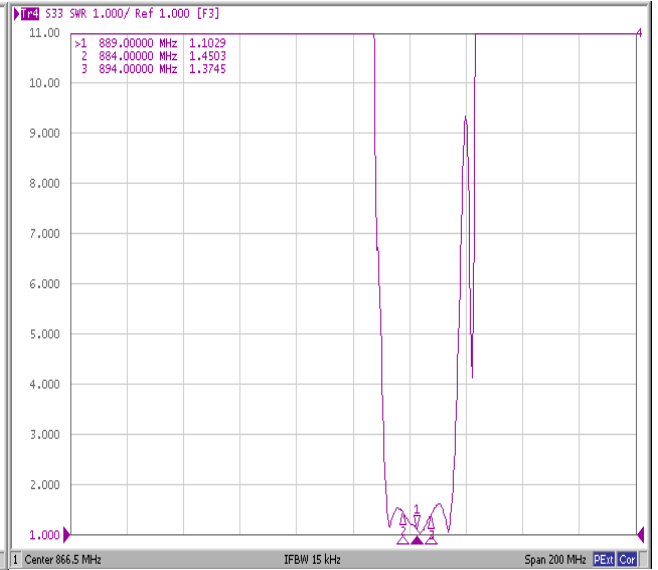
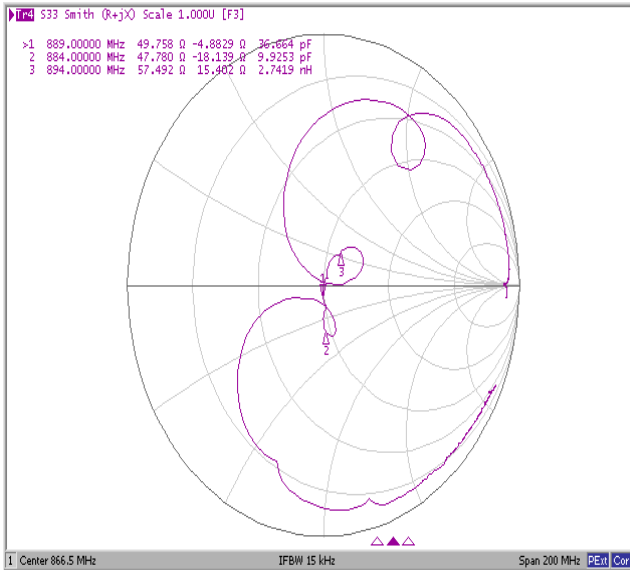




Rx Part

Smith Chart

VSWR



Antenna

Smith Chart

VSWR

