



Total Solution Provider in Saw Device

SD844BP2

SAW DUPLEXER For 844 MHz / 889 MHz
Revision 0: December ,2010



- Electrical Characteristics
 - Package Dimensions
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 - 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		P2		
Length x Width	mm ²	-	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	-	1.2	2.5
Amplitude Ripple	839.0 ~ 849.0	dB _{p-p}	-	0.2	1.0
VSWR	839.0 ~ 849.0	-	-	1.2	2.0
Absolute Attenuation	884.0 ~ 894.0	dB	40	50	-

Ant → Rx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	884.0 ~ 894.0	dB	-	1.3	2.5
Amplitude Ripple	884.0 ~ 894.0	dB _{p-p}	-	0.3	1.0
VSWR	884.0 ~ 894.0	-	-	1.2	2.0
Absolute Attenuation	839.0 ~ 849.0	dB	45	55	-



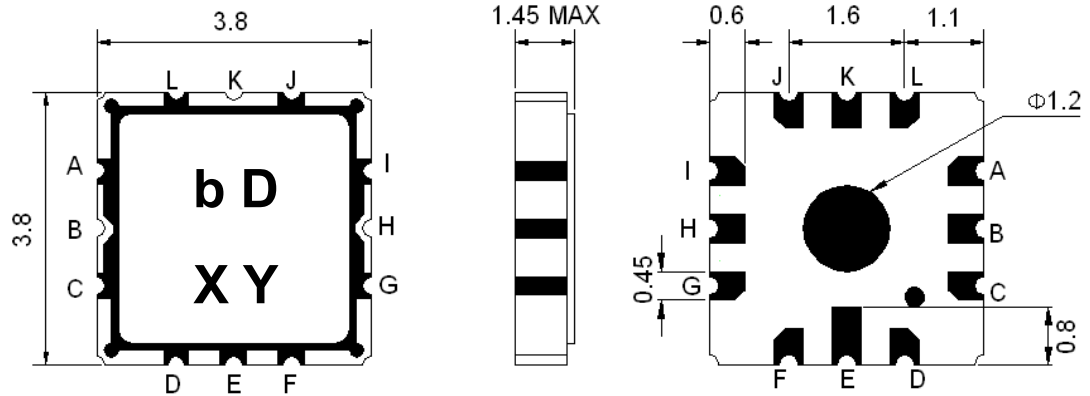
SD844BP2

SAW DUPLEXER FOR 844 MHz / 889MHz

Rx → Tx		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Isolation	839.0 ~ 849.0	dB	50	58	-
	884.0 ~ 894.0	dB	45	55	-

Notes : (1) With Matching Network .

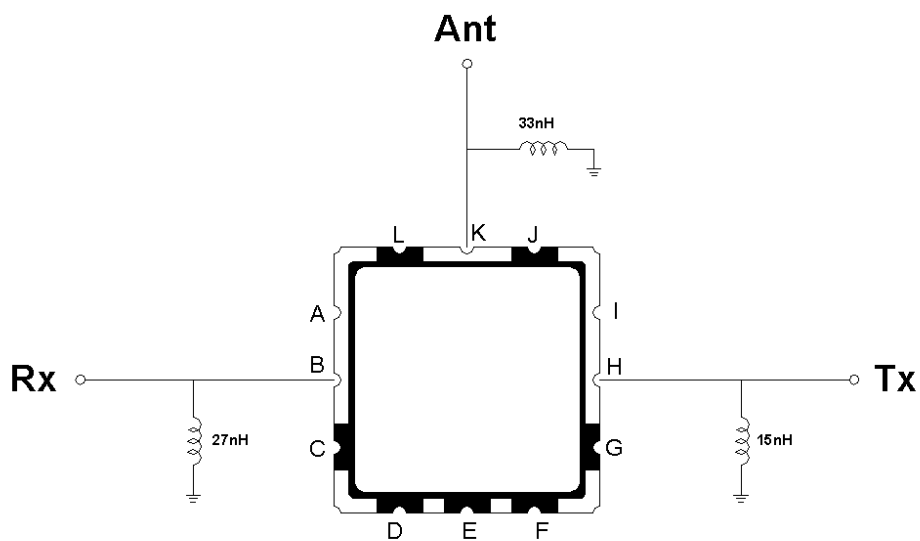
Package Dimensions



Marking Descriptions	
b	Wireless Application
D	Series Number
X	Date Code(Year)
Y	Date Code(Month)

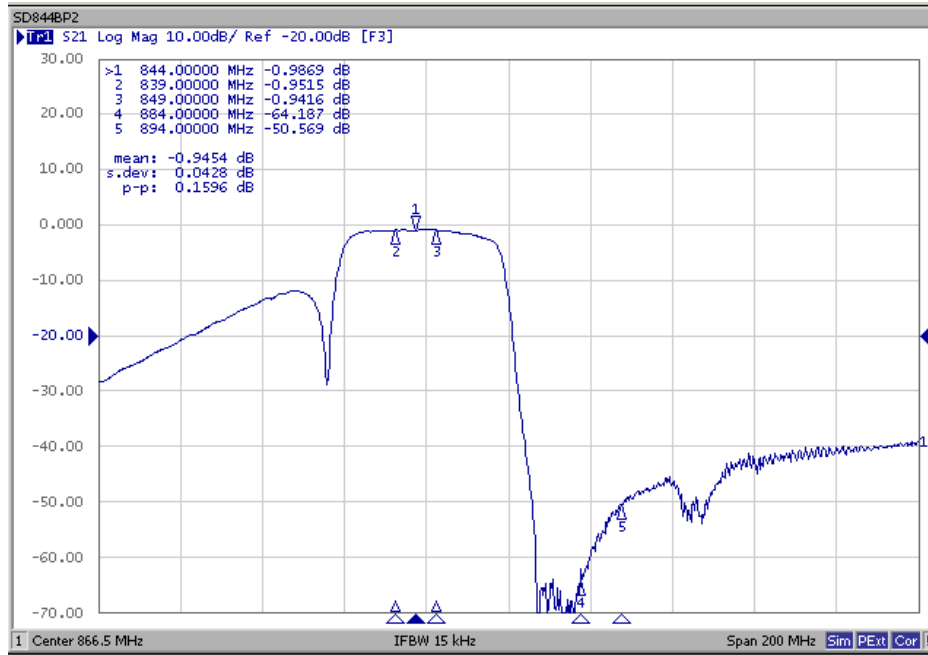
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
K	Ant
B	Rx (889.0 MHz)
H	Tx (844.0MHz)

Testing Environment

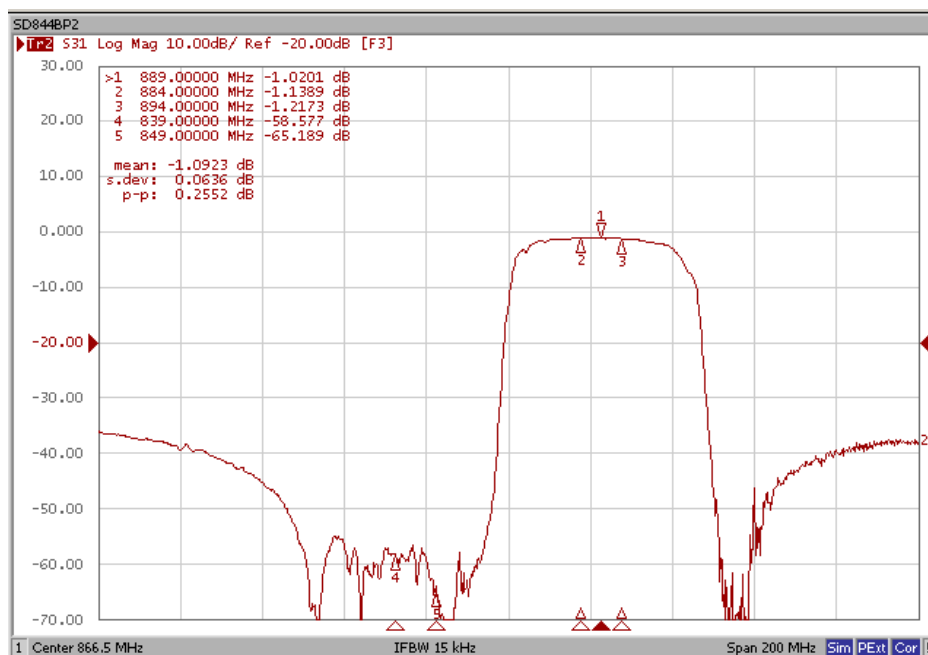


Frequency Characteristics

Tx to Ant

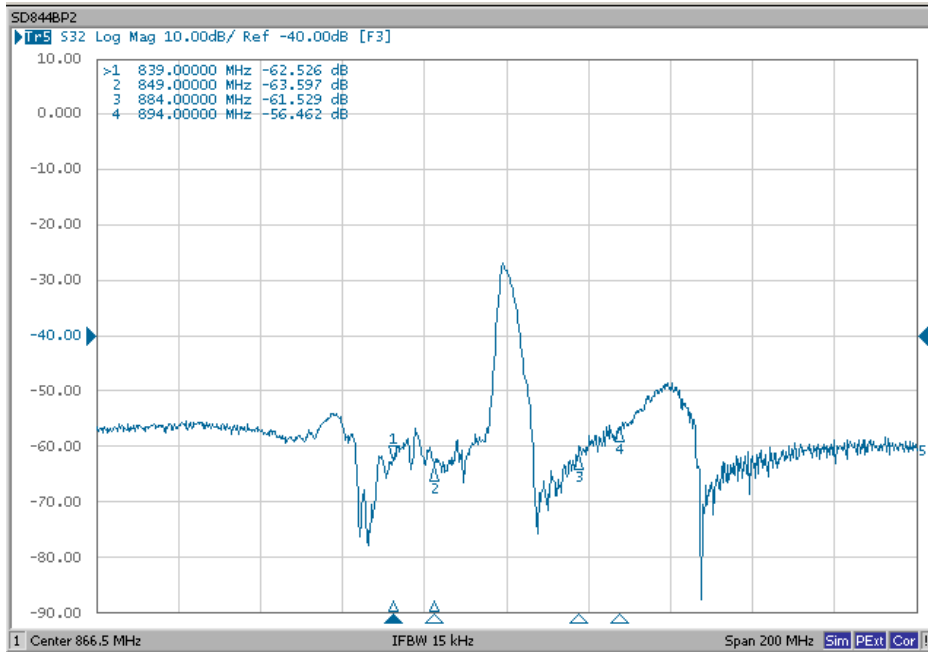


Ant to Rx





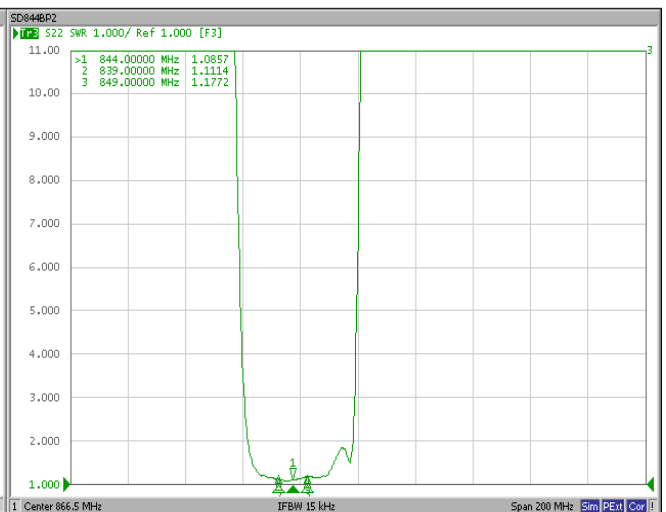
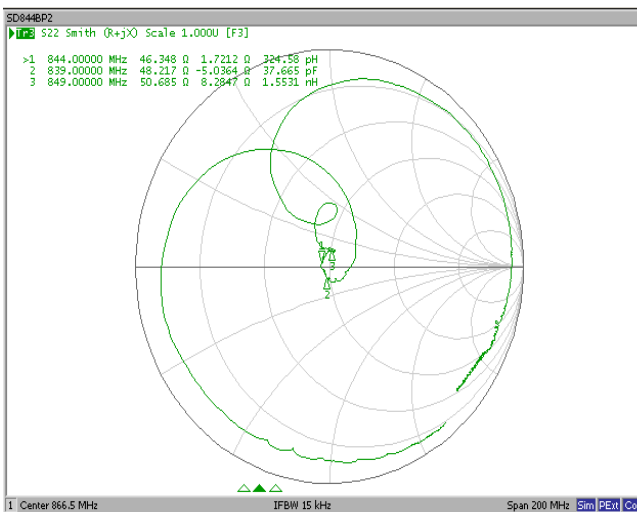
Isolation



Tx Part

Smith Chart

VSWR

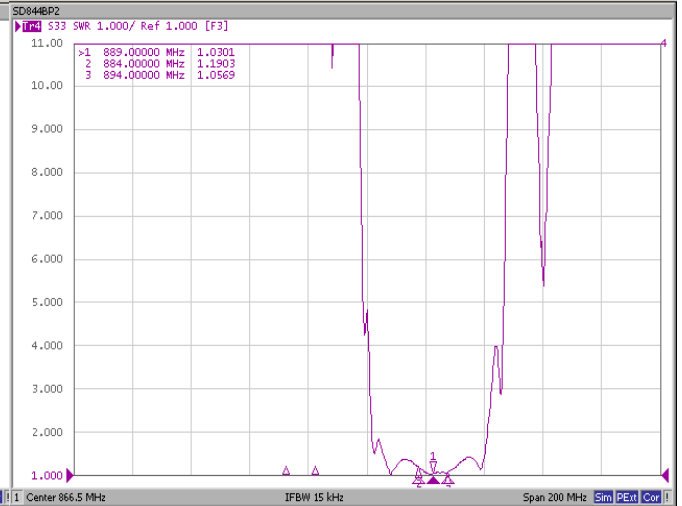
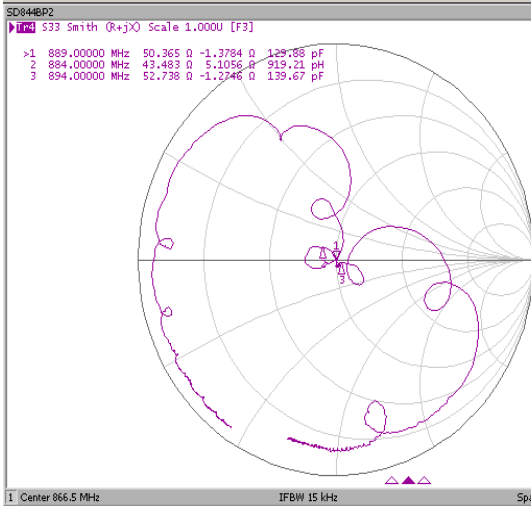




Rx Part

Smith Chart

VSWR



Antenna

Smith Chart

VSWR

