



Total Solution Provider in Saw Device

SD763AP2

LTE, SAW DUPLEXER For 763 MHz / 793 MHz
Revision 0: July, 2010



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

SAWNICS Inc.

460 Cheonheung-ri, Seonggeo-eup, Cheonan-si, Chungcheongnam-do, 330-836 / Korea.
Tel: +82 41 550 9372 / Fax: +82 41 550 9399 / www.sawnics.com



□ 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

Uplink → Ant		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	788.0 ~ 798.0	dB	-	2.2	3.5
Amplitude Ripple	788.0 ~ 798.0	dB _{p-p}	-	0.7	1.5
VSWR	788.0 ~ 798.0	-	-	1.5	2.5
Absolute Attenuation	758.0 ~ 768.0	dB	45	55	-

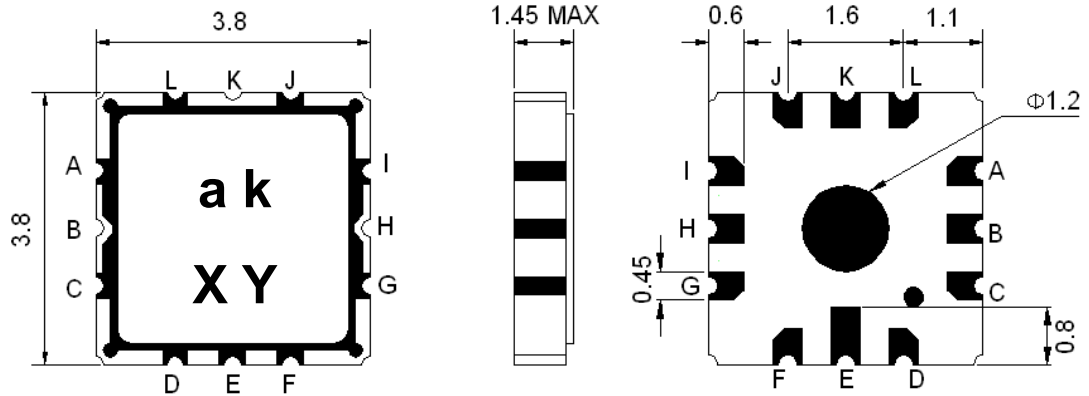
Ant → Downlink		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Insertion Loss	758.0 ~ 768.0	dB	-	2.2	3.2
Amplitude Ripple	758.0 ~ 768.0	dB _{p-p}	-	0.7	1.5
VSWR	758.0 ~ 768.0	-	-	2.2	2.5
Absolute Attenuation	788.0 ~ 798.0	dB	45	55	-



Downlink → Uplink		Specifications			
Parameters Description	Condition [MHz]	Unit	Minimum	Typical	Maximum
Isolation	788.0 ~ 798.0	dB	47	57	-
	758.0 ~ 768.0	dB	50	60	-

Notes : (1) With Matching Network .

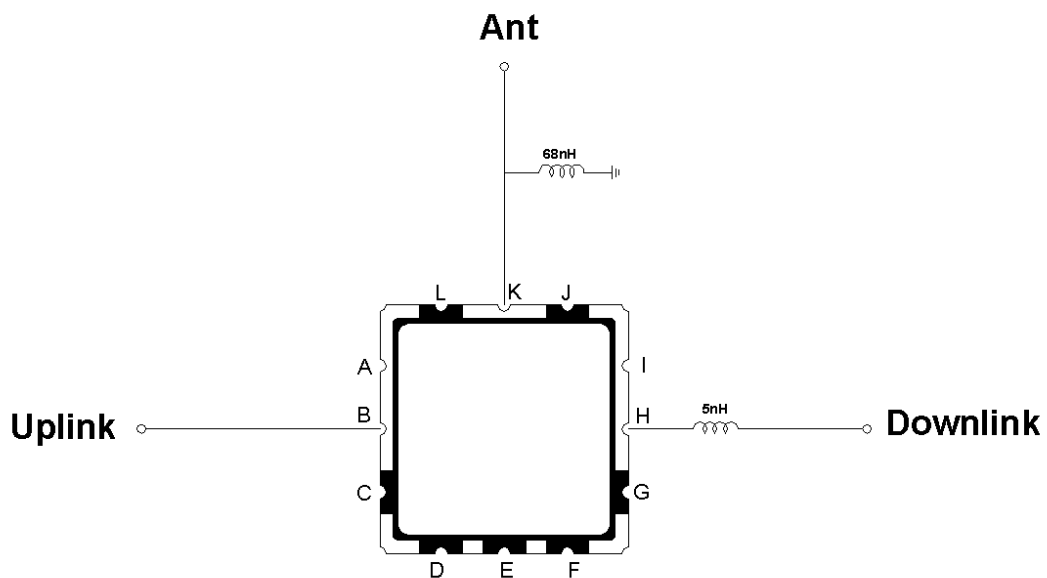
Package Dimensions



Marking Descriptions	
a	Wireless Application
k	Series Number
X	Date Code(Year)
Y	Date Code(Month)

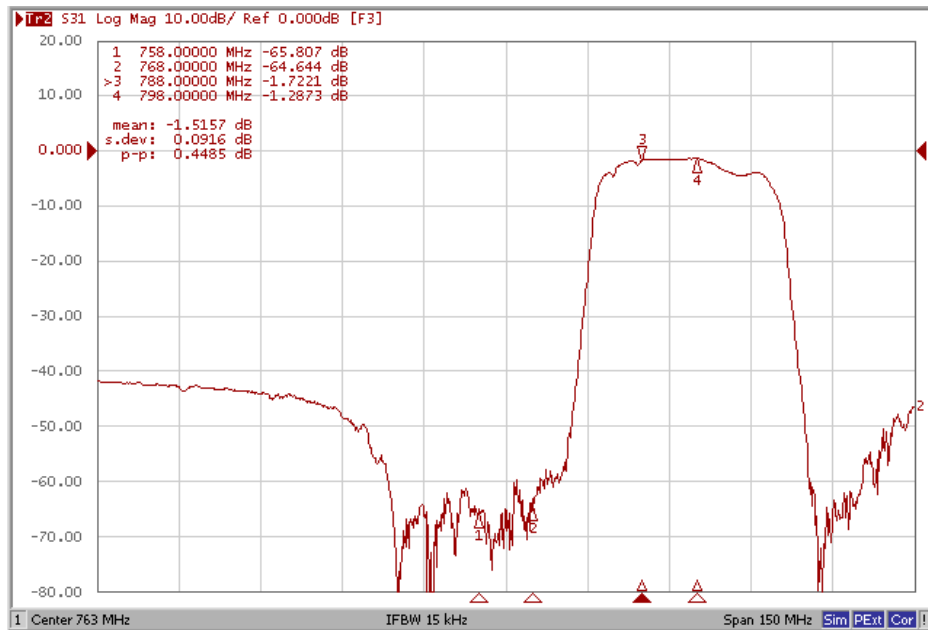
Pin Description	
A, C, D, E, F, G, I, J, L	Ground
K	Ant
B	Uplink (793.0 MHz)
H	Downlink (763.0MHz)

Testing Environment

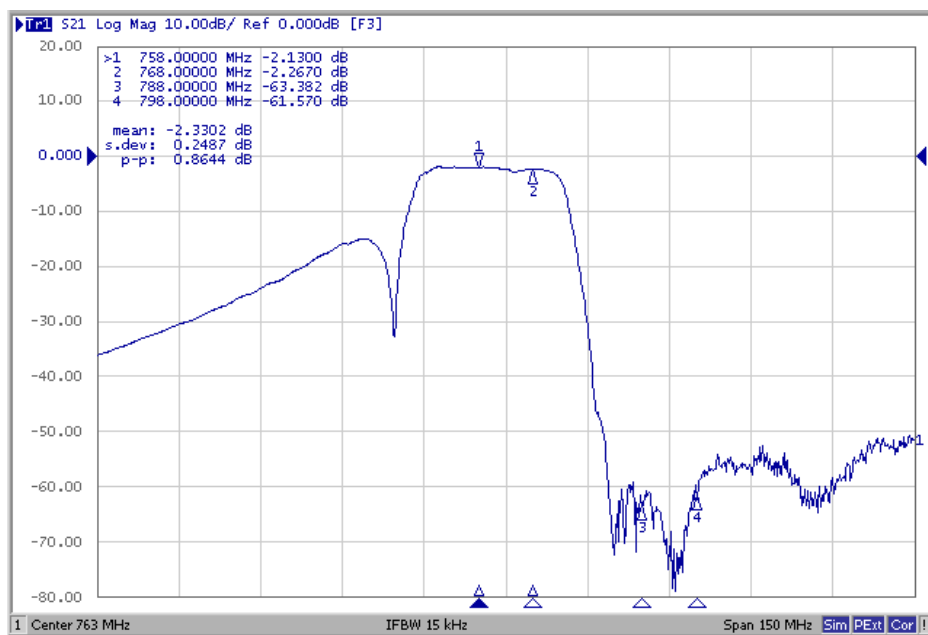


Frequency Characteristics

Uplink to Ant

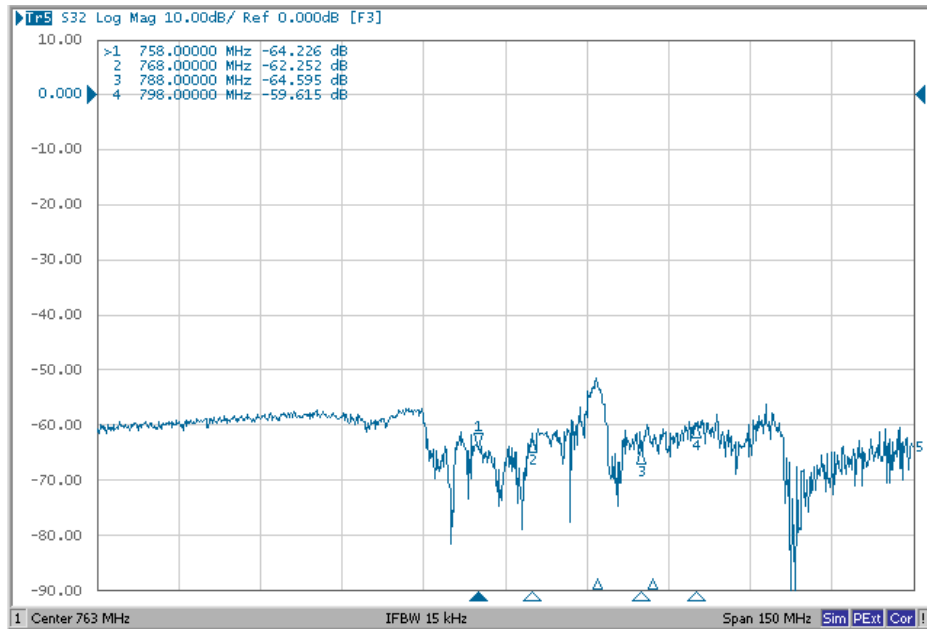


Ant to Downlink



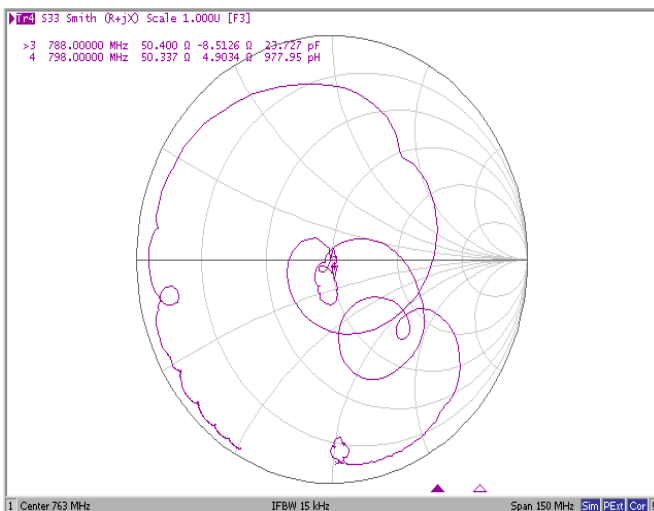


Isolation

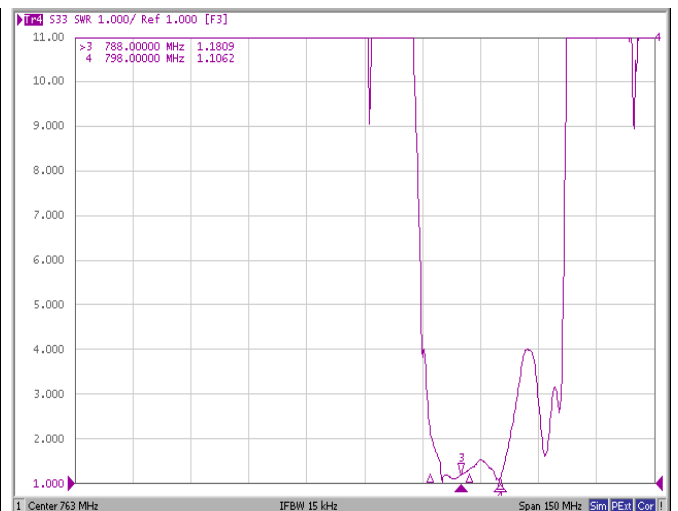


Uplink

Smith Chart



VSWR

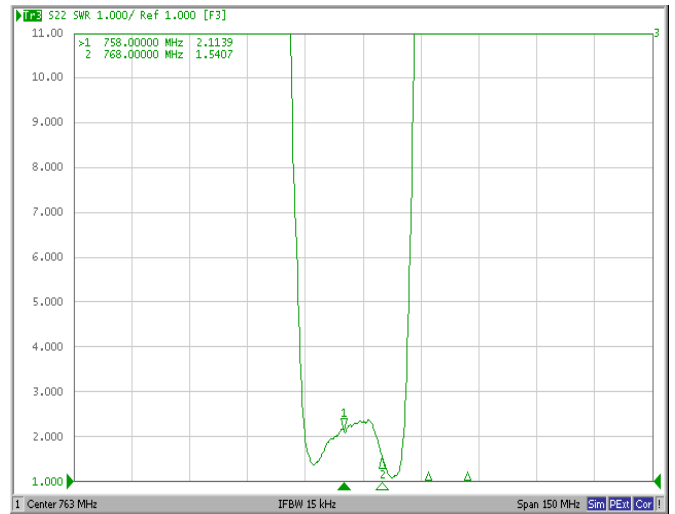
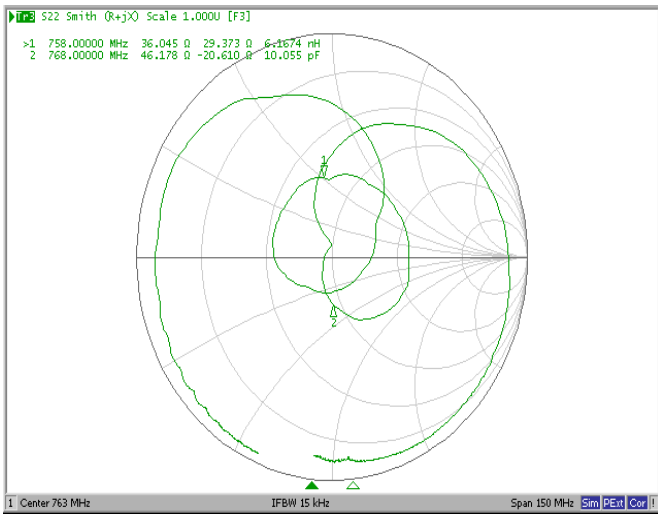




Downlink

Smith Chart

VSWR



Antenna

Smith Chart

VSWR

