SD751BP3

SAW Duplexer For 751MHz / 781MHz
Revision 0: November. 2008

RoHS compliance
Pb free

- ❒ 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

ITEM	UNIT	MIN.	TYP.	MAX.
Operation Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	0		
Tx Band Input Power Level within 777~ 787 MHz	dBm	30dBm > 50000 Hours, CW tone(Ta= +50°C)		
Ant. Tx. Rx Terminating Impedance	Ω	50 Ω		
Package type	P3			
Length x Width	mm²	3.8 x 3.8		
Height	mm	-	-	1.45

Electrical Specification

Tx_781MHz		SPECIFICATIONS			
ITEM	CONDITION [MHz]	Unit	Min.	Typ.	Max.
Insertion Loss	777~ 787	dB	-	1.8	2.5
Ripple	777~ 787	dB_{p-p}	-	0.6	1.2
VSWR	777~ 787	-	-	1.7	2.2
Absolute Attenuation	1 ~ 746	dB	37	42	-
	746 ~ 756	dB	45	48	-
	758 ~ 768	dB	10	20	-
	869 ~ 894	dB	40	49	-
	1574.42 ~ 1576.42	dB	40	48	-
	2328 ~ 2361	dB	30	41	-
	3104 ~ 3148	dB	25	30	-

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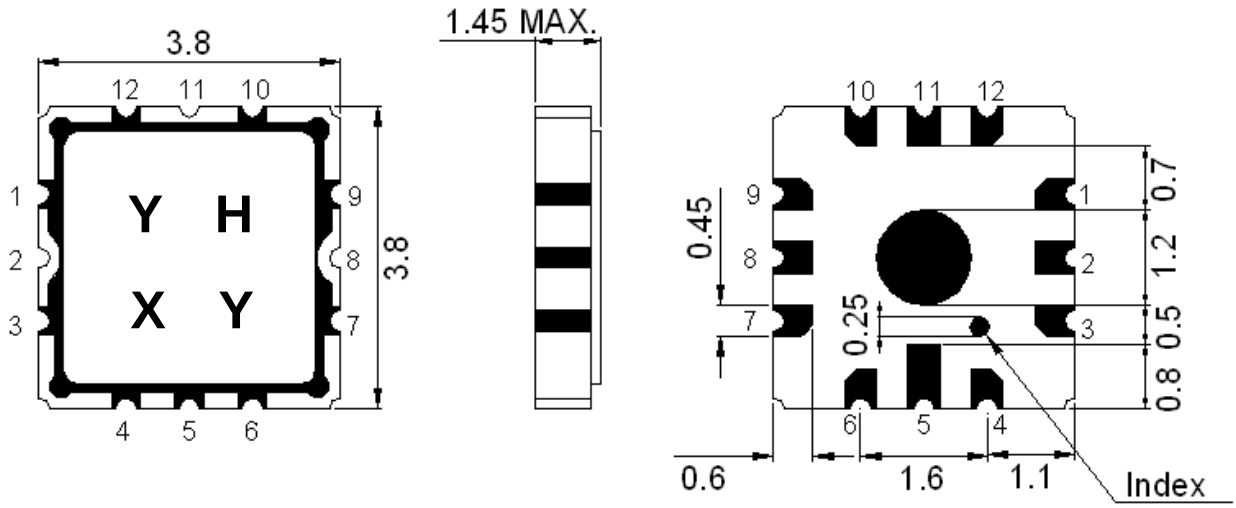
Rx_751MHz		SPECIFICATIONS			
ITEM	CONDITION [MHz]	Unit	Min.	Typ.	Max.
Insertion Loss	746 ~ 756	dB	-	1.5	2.5
Ripple	746 ~ 756	dB_{p-p}	-	0.4	1.2
VSWR	746 ~ 756	-	-	1.5	2.2
Absolute Attenuation	1 ~ 716	dB	35	41	-
	716 ~ 728	dB	40	50	-
	777 ~ 787	dB	50	60	-
	787 ~ 849	dB	38	44	-
	1710 ~ 1755	dB	40	46	-
	1850 ~ 1920	dB	35	45	-

Rx → Tx		SPECIFICATIONS			
ITEM	CONDITION [MHz]	Unit	Min.	Typ.	Max.
Isolation	777 ~ 787	dB	55	60	-
	746 ~ 756	dB	50	55	-

*Note : Including losses due to Test PCB(0.3dB)

❒ Package Dimensions

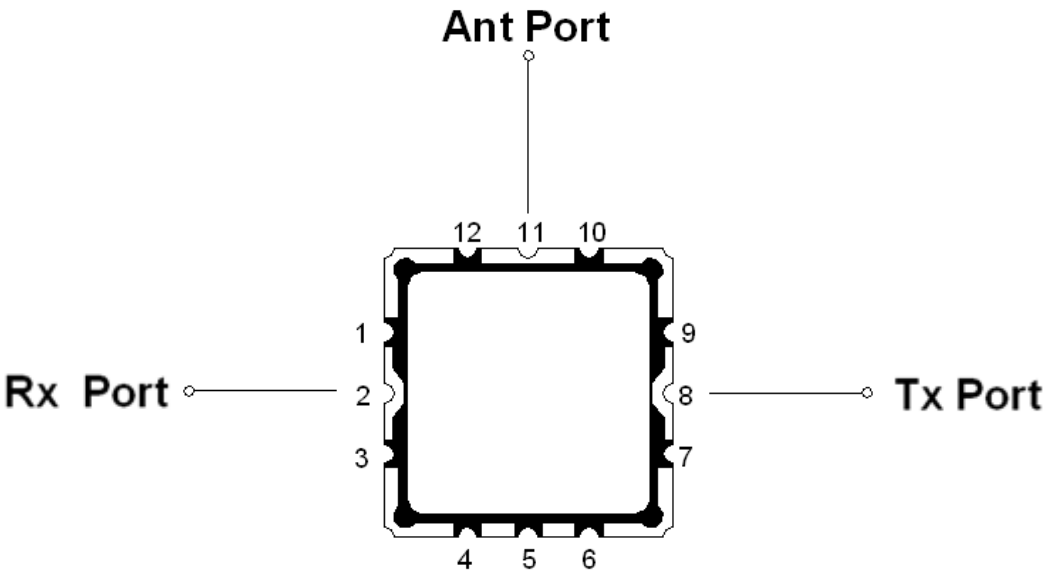
Unit: mm



Marking Descriptions	
Y	Model Application
H	SAW Duplexer
X	Date Code(Year)
Y	Date Code(Month)

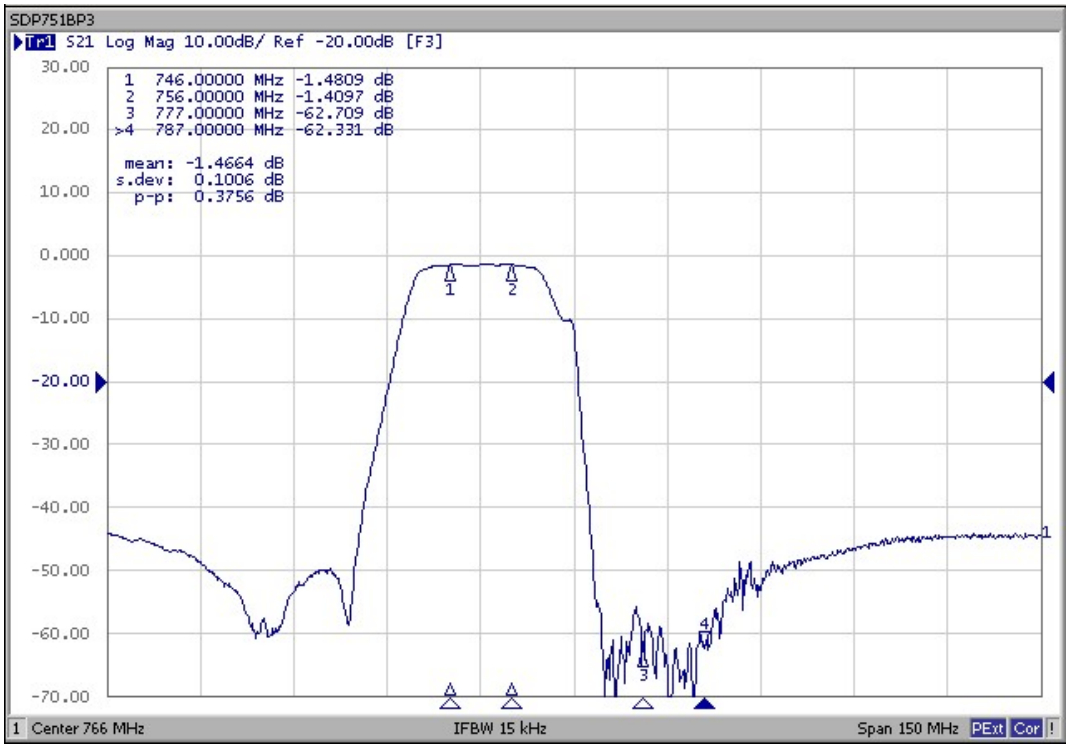
Pin Description	
the others	Ground
2	Rx Port(751.0MHz)
11	Antenna
8	Tx Port (781.0MHz)

❒ Testing Environment

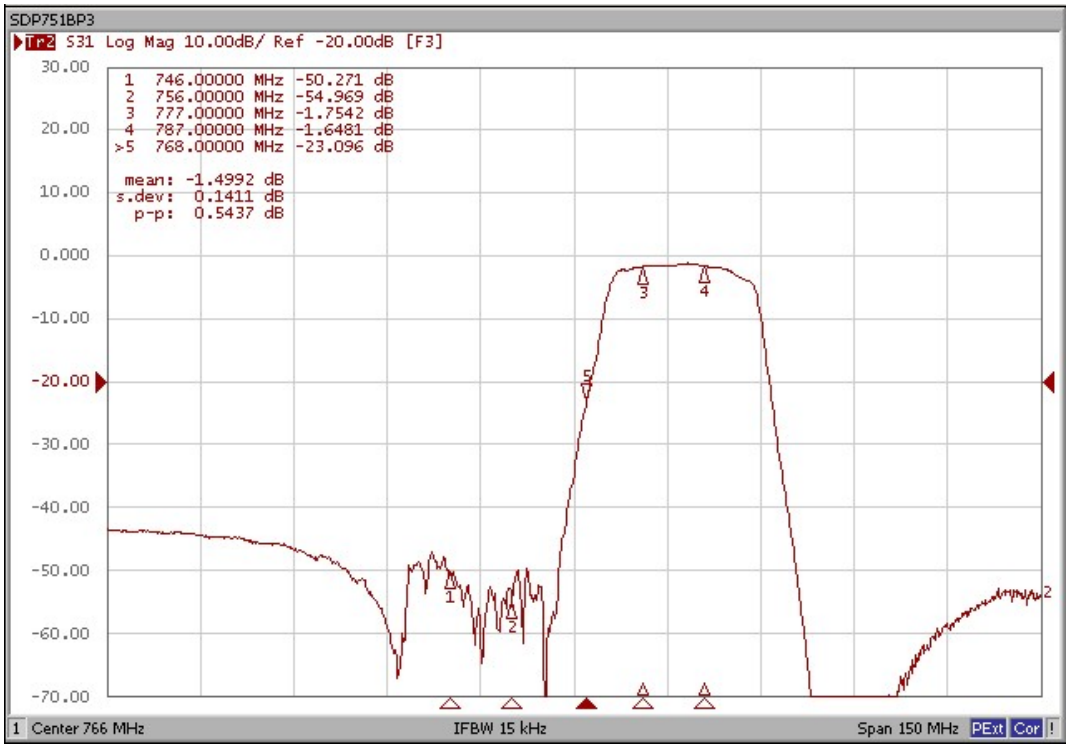


❒ Frequency Characteristics

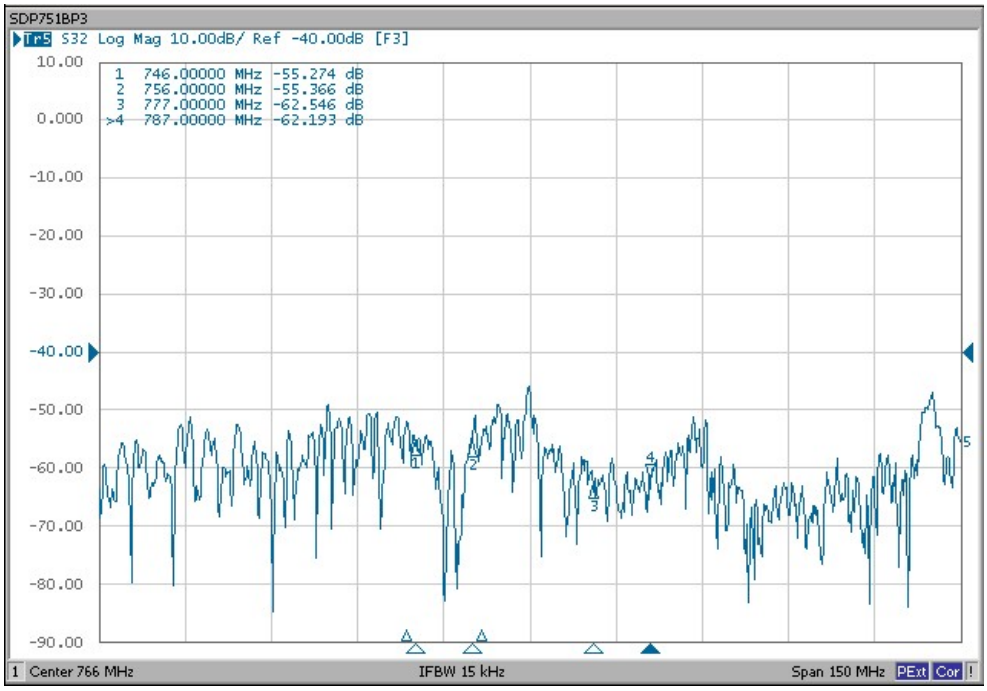
Rx Characteristic



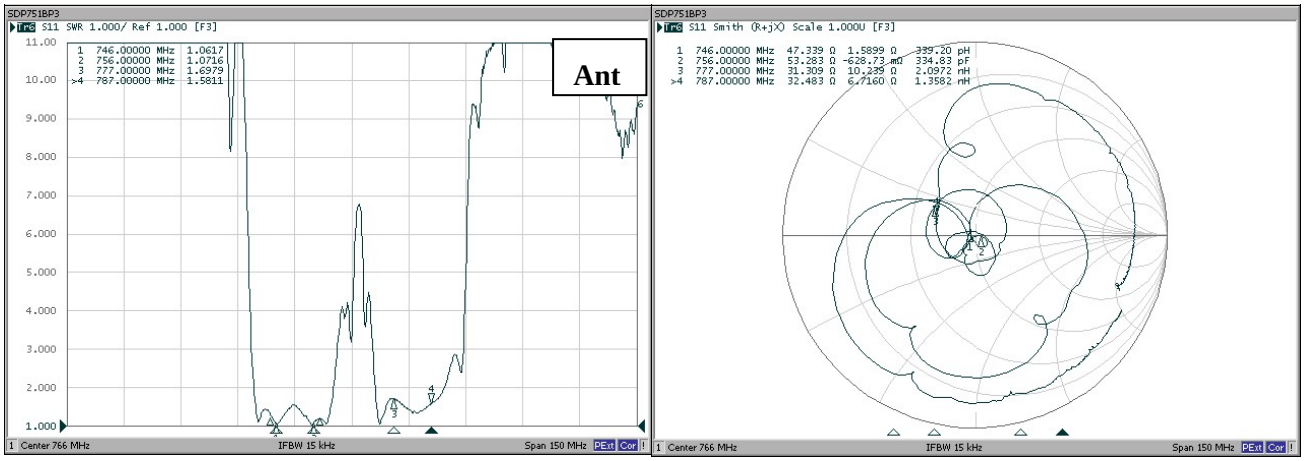
Tx Characteristic

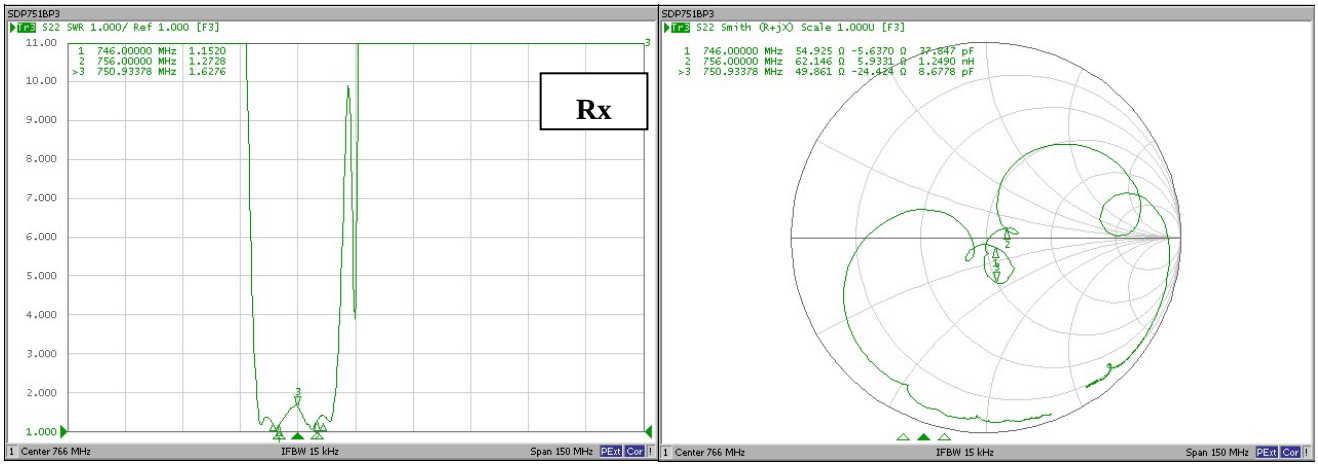


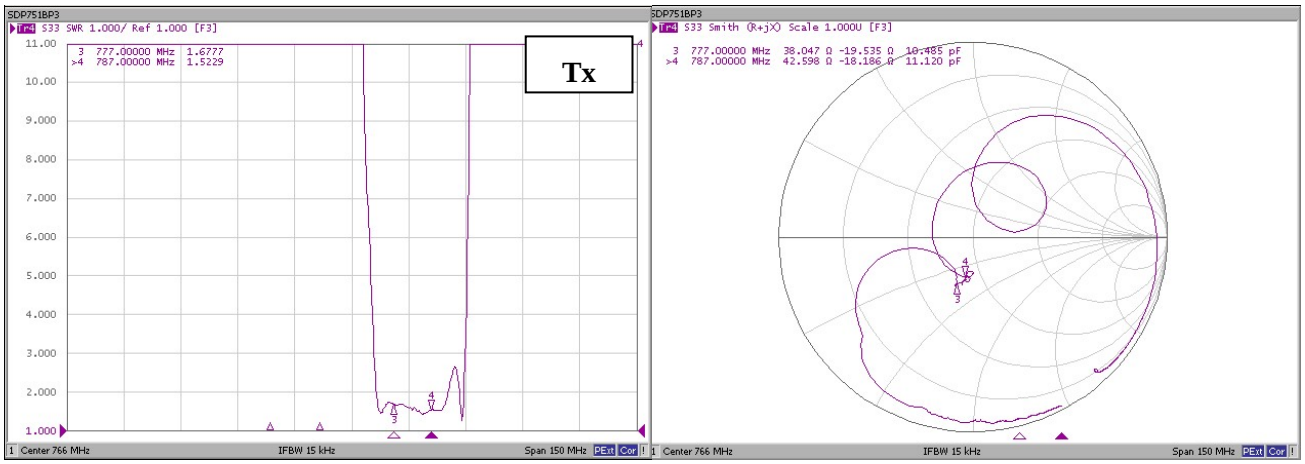
Isolation Characteristic



VSWR & SmithChart Characteristic







Wide Span Characteristic