

TAI-SAW TECHNOLOGY CO., LTD. No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District, Taoyuan, 324, Taiwan, R.O.C. TEL: 886-3-4690038 FAX: 886-3-4697532 E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Name: Duplexer 707/737MHz 18MHz BW SMD 3.8×3.8 mm

TST Parts No.: TF0076A

Customer Part No.:_____

Customer signature required	t	
Company:		
Division:		
Approved by :		
Date:		
Checked by:	Andy Yu	Andy In
Approved by:	Bob Chau	plelm
Date:	2013, 11, 25	

- 1. Customer signed back is required before TST can proceed with sample build and receive orders.
- 2. Orders received without customer signed back will be regarded as agreement on the specifications.
- 3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes



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SAW Duplexer 707/737MHz 18MHz BW SMD 3.8×3.8 mm

MODEL NO.: TF0076A

A. MAXIMUM RATING:

1. Maximum Input Power: 30 dBm

2.DC voltage: 0 V

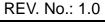
- 3.Operating Temperature: 0°C to +50°C
- 4.Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

Tx(707.0MHz) → Ant		Specifications.			
Parameters Description., Condition [MHz].,		Unit.	Minimum.	Typical.	Maximum.,
Insertion Loss.	698.0 ~ 716.0.,	dB.,	- .a	1.9.,	3.0.,
Amplitude Ripple.,	698.0 ~ 716.0.,	dB _{p-p-1}	1	0.9.,	1.5.,
VSWR	698.0 ~ 716.0 [,]	- .1	- .1	1.8.,	2.2.,
Absolute Attenuation.,	728.0 ~ 746.0.,	dB.,	40.,	48.,	1

Ant \rightarrow Rx(737.0MHz).,		Specifications.			
Parameters Description., Condition [MHz]		Unit.	Minimum.	Typical.	Maximum.,
Insertion Loss.,	728.0 ~ 746.0.,	la dBa -a		1.9.,	3.0.,
Amplitude Ripple.	728.0 ~ 746.0.,	dB _{p-p-1} , 1.		1.0.,	1.5.,
VSWR	728.0 ~ 746.0 [,]	.0 ⁴ - a - a 1.7 a		1.7.	2.2.,
Absolute Attenuation.,	698.0 ~ 716.0.,	.0 ~ 716.0., dB.,		38.,	1
$\mathbf{Tx} \rightarrow \mathbf{Rx}$.,		Specifications			
Parameters Description.,	Condition [MHz].	Unit.	Minimum.	Typical.	Maximum.
	698.0 ~ 716.0.,	dB.,	35.,	38.,	
Isolation.,	716.0 ~ 728.0.1	dB.,	20.,	27.5	
	728.0 ~ 746.0.,	dB.,	40.,	50.,	

Notes : (1) With Matching Network .

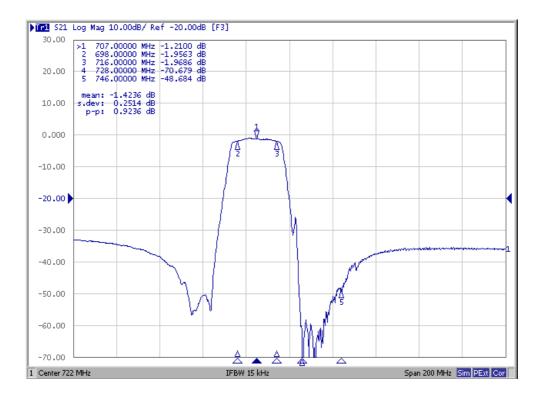


RoHS Compliant

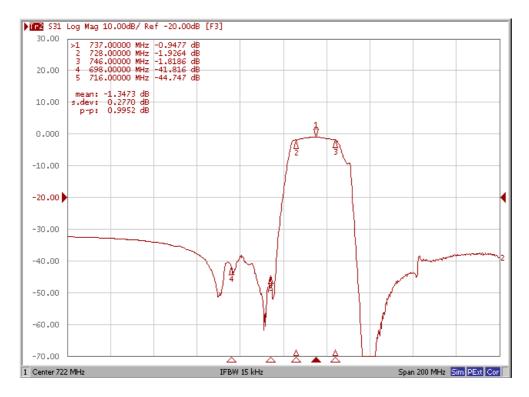
Lead-free soldering

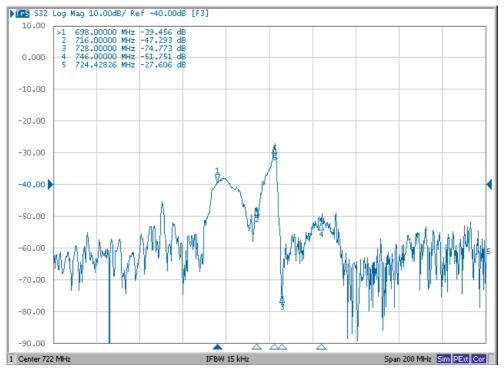
C. Frequency Characteristics :





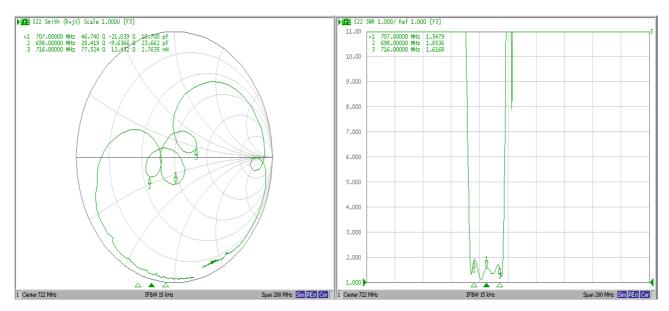
Rx Characteristic



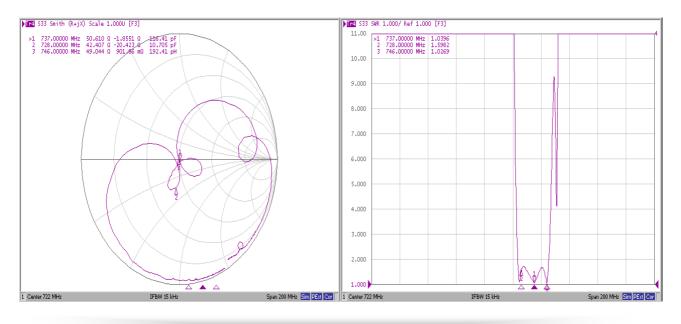


Isolation Characteristic

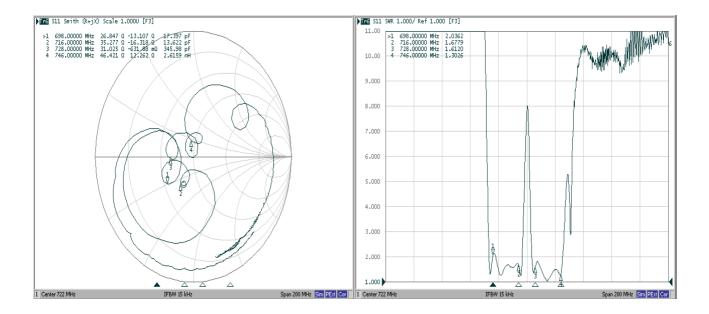




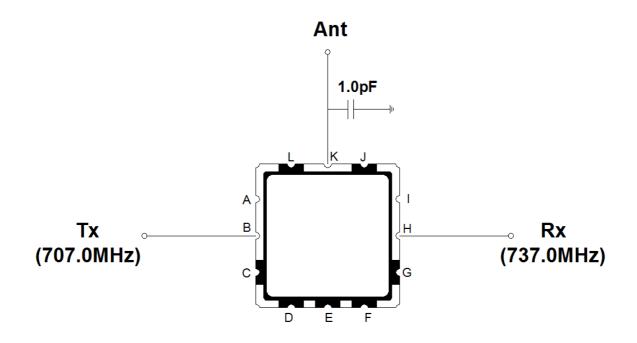
Rx Part



Antenna

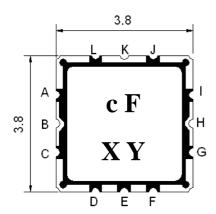


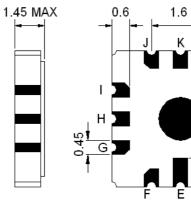
D. MEASUREMENT CIRCUIT:



E.OUTLINE DRAWING:

Unit: mm





Marking Descriptions			
c	c Wireless Application		
F	Series Number		
X	Date Code(Year)		
Y	Date Code(Month)		

Pin Description			
A, C, D, E, F, G, I, J, L	Ground		
K	Ant		
В	Rx (737.0MHz)		
Н	Tx (707.0 MHz)		

D

1.1

Φ1.2

8.0

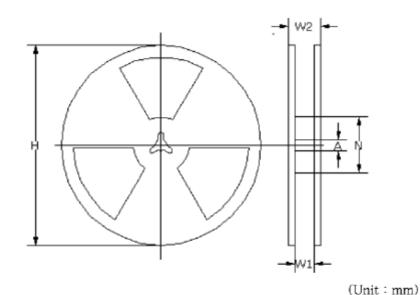
А

B

С

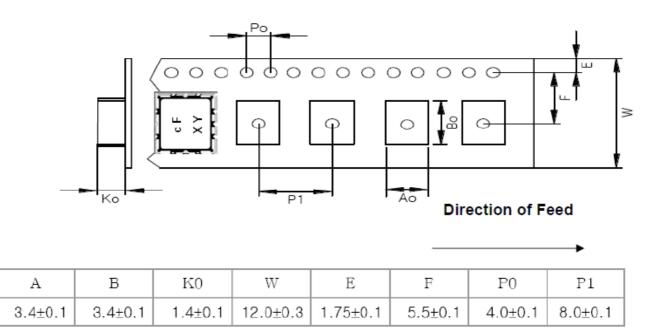
E. PACKING:

1. REEL DIMENSION



		(OHIO HMH)		
A	N	Н	W1	W2
Φ13±0.5	Φ62 ±1.0	Φ330.0±1.0	12.0±1.0	16.0±1.0

2. TAPE DIMENSION



F. RECOMMENDED REFLOW PROFILE :

