



# TAI-SAW TECHNOLOGY CO., LTD.

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](mailto:tstsales@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)

## Product Specifications Approval Sheet

Product Description: DR Filter 3700MHz (BW=200MHz) 3.6x4.16

TST Parts No.: TR0005A

Customer Parts No.: \_\_\_\_\_

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: \_\_\_\_\_ Hong Pu Lin *Hong Pu Lin*

Approval by: \_\_\_\_\_ Andy Yu *Andy Yu*

Date: \_\_\_\_\_ 12 / 02 / 2019

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.



# TAI-SAW TECHNOLOGY CO., LTD.

No.3, Industrial 2nd Rd., Ping-Chen Industrial District, Taoyuan, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: [tstsales3@mail.taisaw.com](mailto:tstsales3@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)

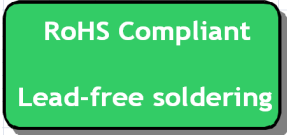
DR Filter 3700MHz BW 200MHz

MODEL NO.: TR0005A

REV. NO.1

## A. MAXIMUM RATING:

1. Operating temperature range: -40°C to 85°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level : 1W
4. Input/Output Impedance:50 Ohm
5. Moisture Sensitive Level: Level :MSL 2a

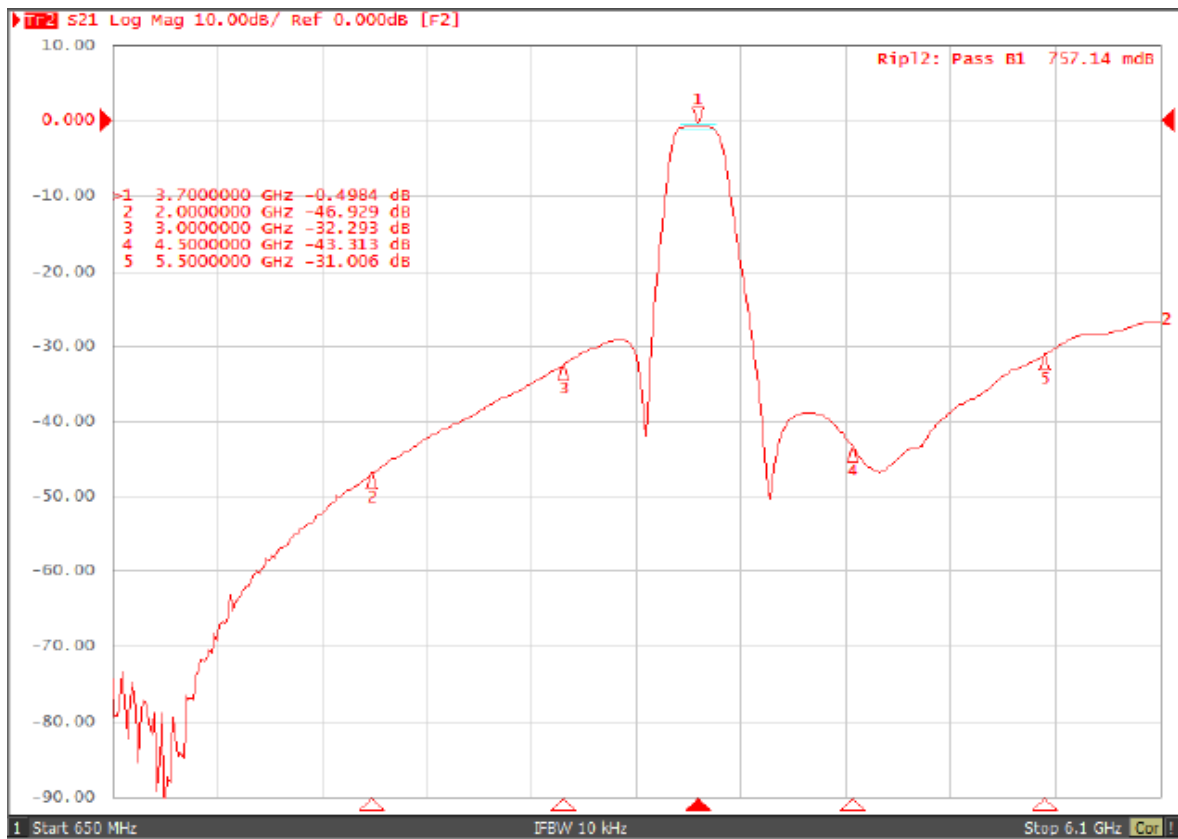
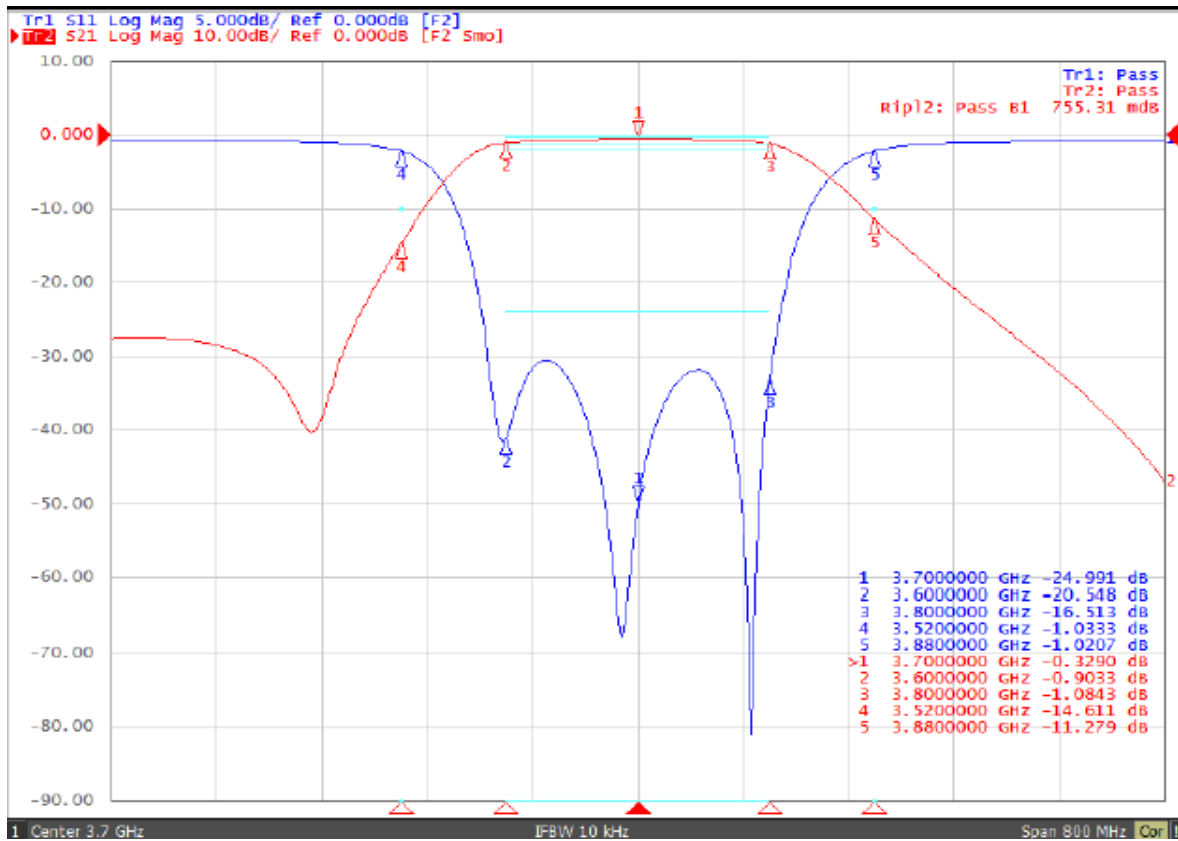


Electrostatic Sensitive Device

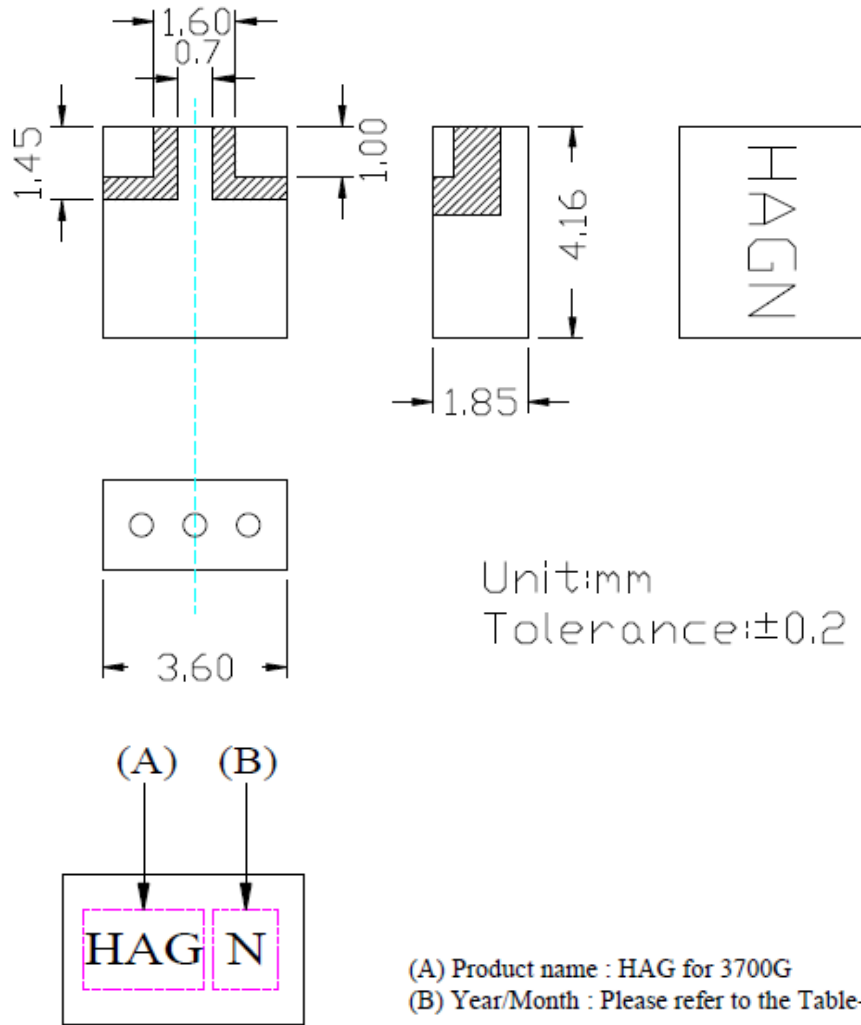
## B. CHARACTERISTICS:

Item	Unit	Min	Type	Max
Center frequency, Fc	MHz	-	3700	-
Insertion Loss (3600~3800MHz)	dB	-	2.0	2.5
Ripple (3688~3712MHz)	dB	-	0.8	1.0
Ripple (3600~3800MHz)	dB	-	1.2	1.5
Return Loss (3600~3800MHz)	dB	10	12	
<b>Specifies the absolute value of Attenuation</b>				
3520MHz	dB	8	10	-
3880MHz	dB	8	10	-

### C. FREQUENCY CHARACTERISTICS:

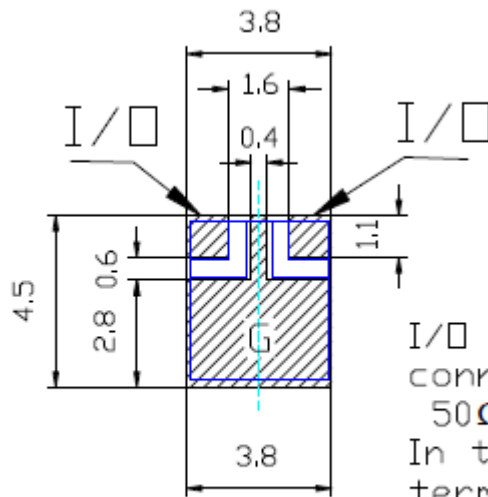


**D. OUTLINE DRAWING:**



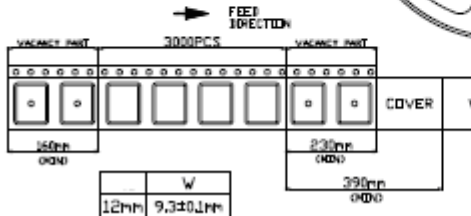
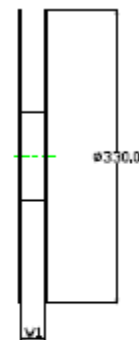
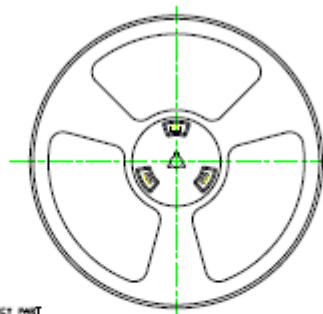
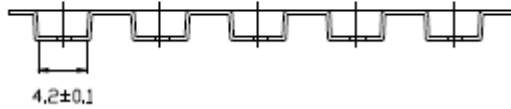
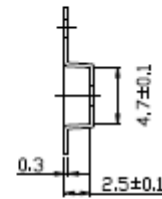
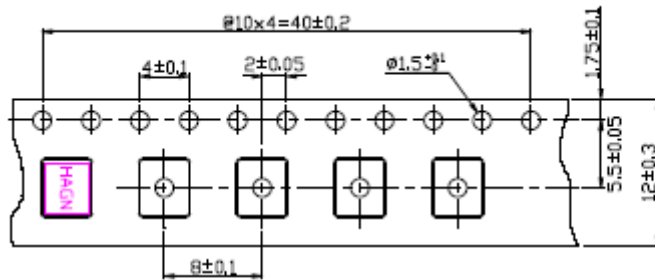
**( Table-1 )**

Year	Month	Code	Year	Month	Code	Year	Month	Code	Year	Month	Code
2012 2016 2020 2024	1	A	2013 2017 2021 2025	1	N	2014 2018 2022 2026	1	A.	2015 2019 2023 2027	1	N.
	2	B		2	P		2	B.		2	P.
	3	C		3	Q		3	C.		3	Q.
	4	D		4	R		4	D.		4	R.
	5	E		5	S		5	E.		5	S.
	6	F		6	T		6	F.		6	T.
	7	G		7	U		7	G.		7	U.
	8	H		8	V		8	H.		8	V.
	9	J		9	W		9	J.		9	W.
	10	K		10	X		10	K.		10	X.
	11	L		11	Y		11	L.		11	Y.
	12	M		12	Z		12	M.		12	Z.



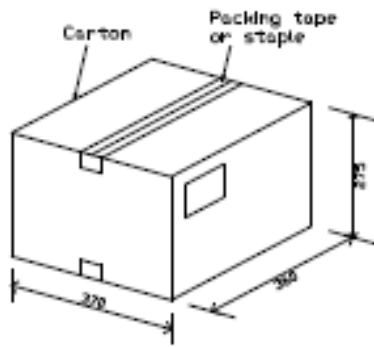
I/O Pads must be connected to lines with  $50\Omega$  impedance. In the application termination of  $50\Omega$  must be realized.

**E. PACKING:**

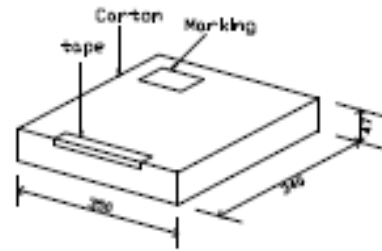


	W1
12mm	12.3±1.0mm

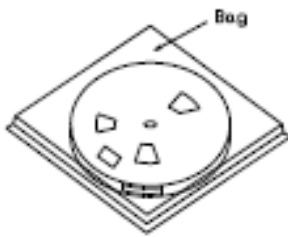
1. Outer Carton  
Quantity: 30000PCS



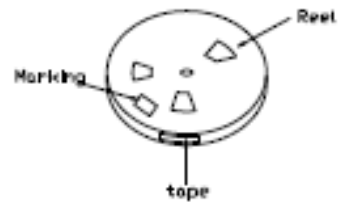
2. Inner Carton  
Quantity: 6000PCS



3. Bag  
Quantity: 3000PCS



4. Taping  
Quantity: 3000PCS



Unit:mm

**F. RECOMMENDED REFLOW PROFILE:**

Phase	Profile features	Pb-Free Assembly (SnAgCu)
PREHEAT	-Temperature Min( $T_{smin}$ ) -Temperature Max( $T_{smax}$ ) -Time( $t_s$ ) from ( $T_{smin}$ to $T_{smax}$ )	150°C 200°C 60-120 seconds
RAMP-UP	Avg. Ramp-up Rate ( $T_{smax}$ to TP)	3°C/second(max)
REFLOW	-Temperature( $T_L$ ) -Total Time above $T_L$ ( $t_L$ )	217°C 30-100 seconds
PEAK	-Temperature( $T_P$ ) -Time( $t_p$ )	260°C 3 second
RAMP-DOWN	Rate	6°C / second max.
Time from 25°C to Peak Temperature		8 minutes max.
Composition of solder paste		96.5Sn/3Ag/0.5Cu
Solder Paste Model		SHENMAO PF606-P26

The graphic shows temperature profile for component assembly process in reflow ovens

