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 Web: www.taisaw.com

Product Specifications Approval Sheet

Product Name: Multi-layer Filter 2450 MHz SMD 1.6x0.8 mm (BW=100 MHz)

TST Parts No.: TL0010A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Sam Lin

Approved by: Bob Chau

Date: 2019/04/22

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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Multi-layer Filter 2450 MHz

MODEL NO.: TL0010A REV. NO.:4.0

A. MAXIMUM RATING:

1. Input Power Level: 2W
2. DC Voltage : 0 V
3. Operating Temperature: -40℃ to +120℃
4. Storage Temperature: -40℃ to +120℃
5. Moisture Sensitive Level: Level 1 (MSL1)

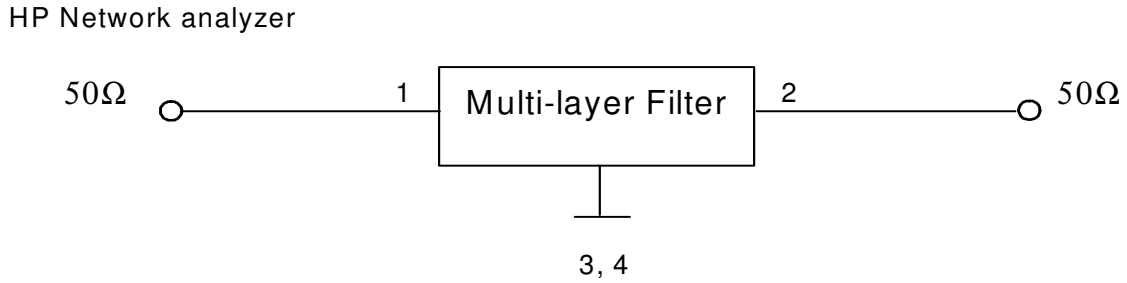
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

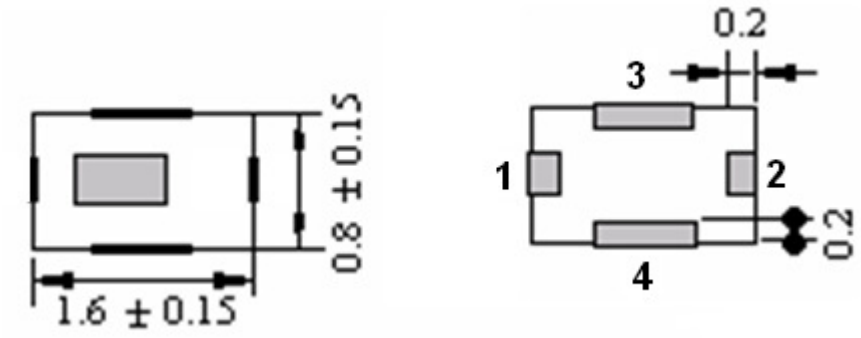
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center Frequency **Fc**	MHz	-	2450	-
Insertion loss (2400~2500 MHz) (25℃) **IL**	dB	-	1.7	2.0
Insertion loss (2400~2500 MHz) **IL**	dB		1.7	2.5
Amplitude Ripple (2400~2500 MHz)	dB	-	0.2	1.0
VSWR (2400~2500 MHz)	-	-	1.3	1.9
Attenuation (Reference level from 0 dB)				
880 ~ 900 MHz	dB	27	40	-
4800 ~ 5000 MHz	dB	34	45	-
7200 ~ 7500 MHz	dB	34	40	-

C. MEASUREMENT CIRCUIT:



D. OUTLINE DRAWING:



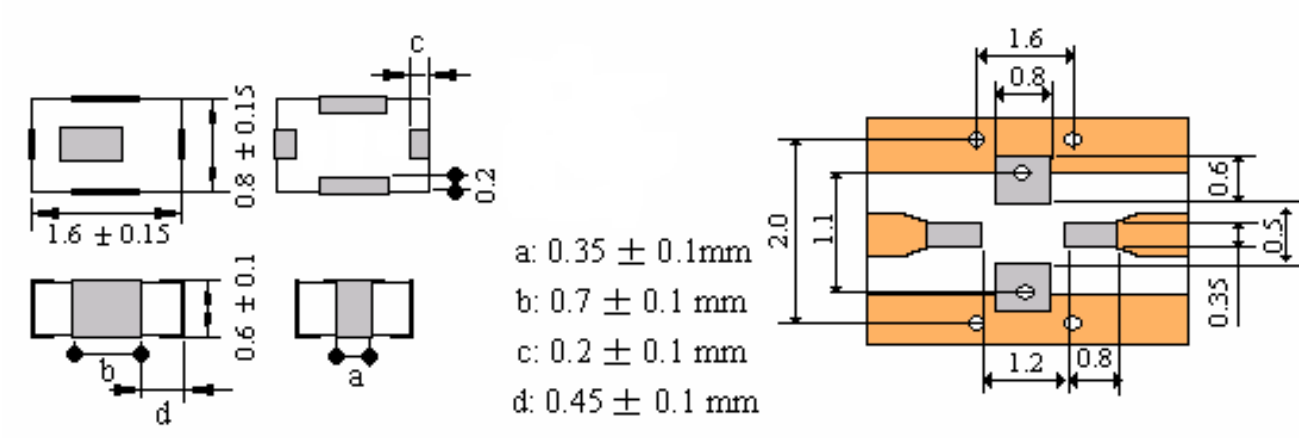
1: Input
2: Output
3, 4: Ground
Unit: mm

Marking name: B

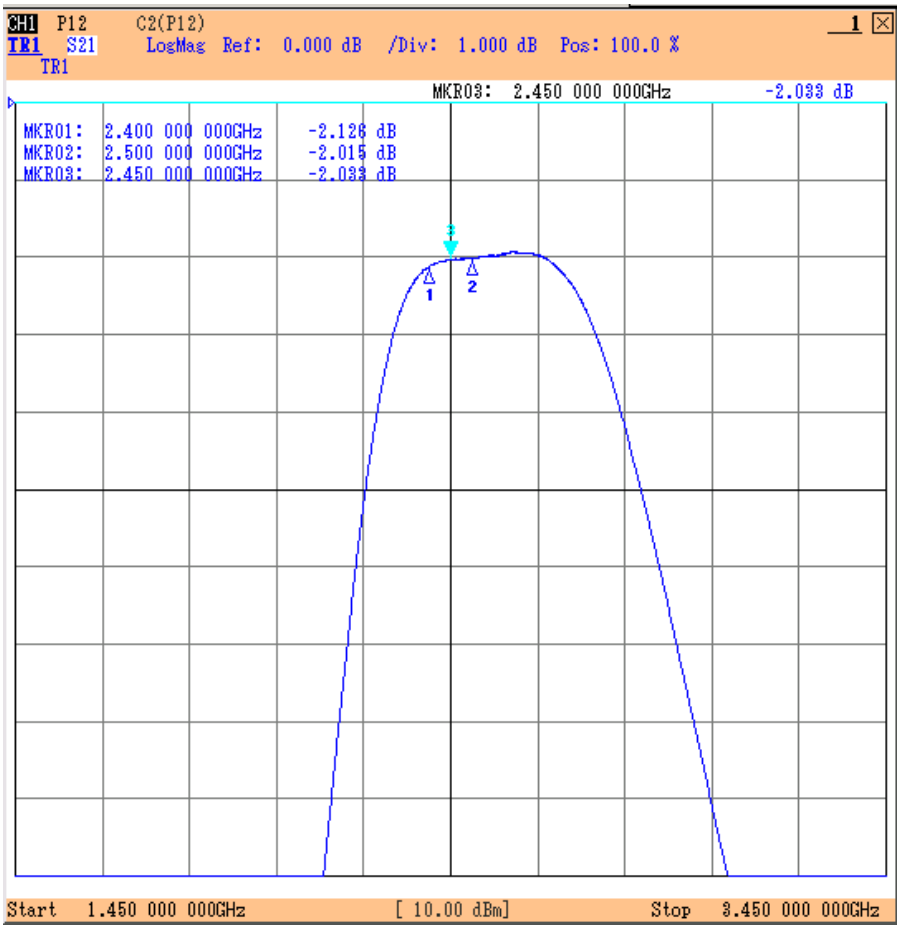
☐ : Year/Month Code (Follow the table)

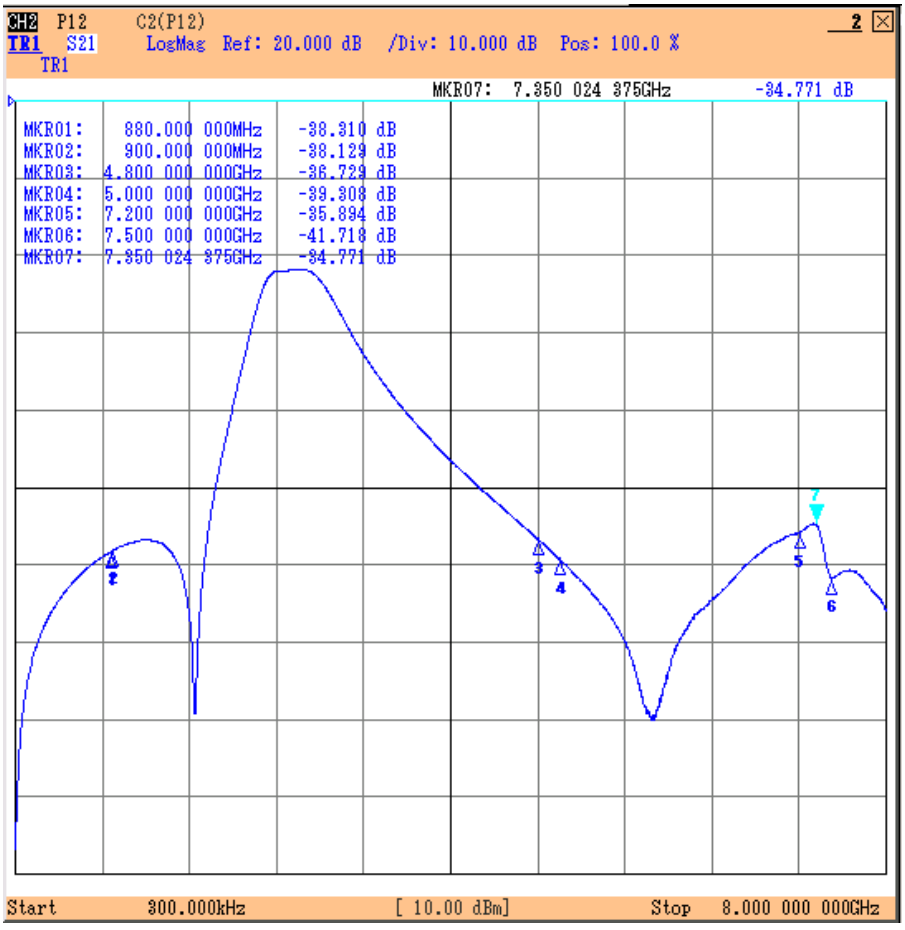
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2014	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2015	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
2016	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**
2017	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2018	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2019	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
2020	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**

E. PCB Footprint:



F. Frequency Characteristics: (*The performance including PCB loss.)

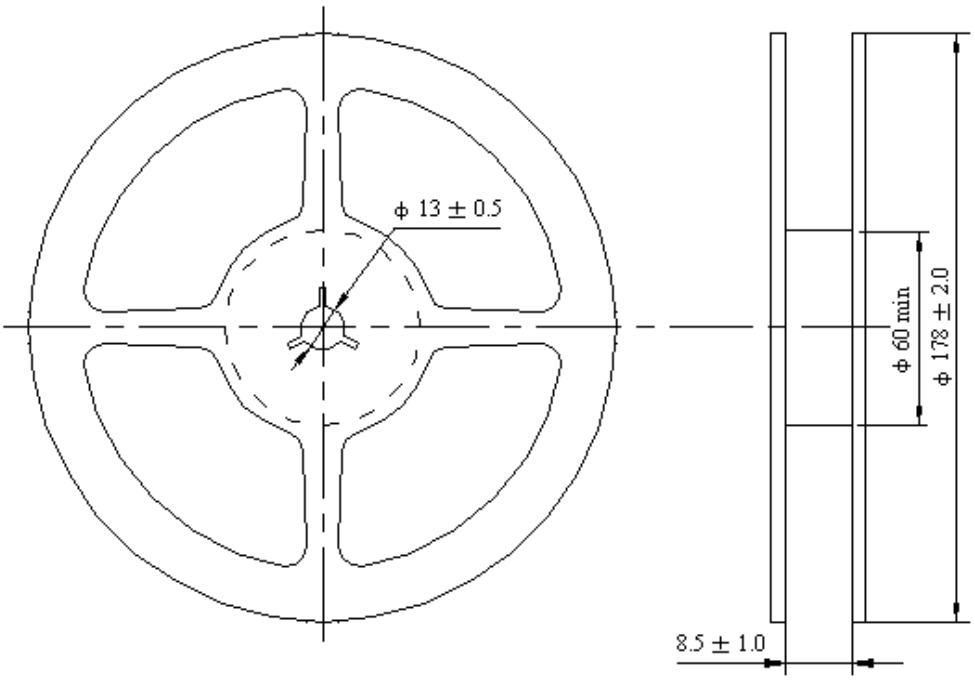




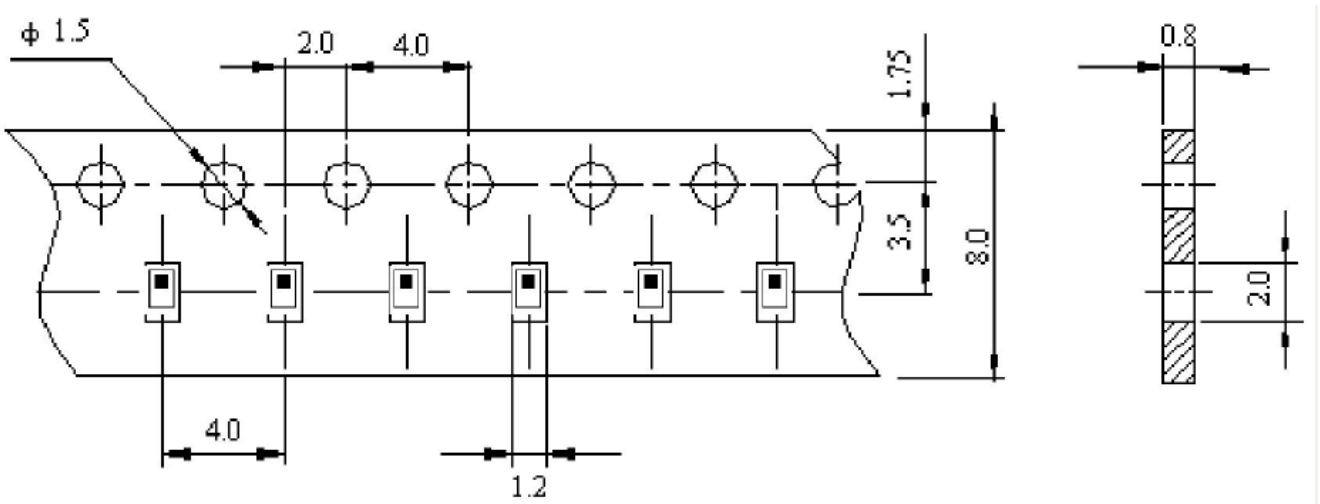
G. PACKING:

1. REEL DIMENSION **(6000 pcs/Reel)**

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



H. <u>Recommended Reflow Profile:</u>

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.