

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

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Product Specifications Approval Sheet

Product Description: LTCC Filter 2450MHz BW100MHz Size 1.6x0.8 mm				
TST Part No.: TL0036A				
Customer Part No.:				
	Customer signature required			
	Company:			
	Division:			
	Approved by :			
	Date:			
Che	ecked by: Hong Pu Lin Hong Pu Lin			
Арр	proved by: Andy Yu Andy An			
Date	e:			

- 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 change



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LTCC Filter 2450 MHz SMD 1.6X0.8 mm

MODEL NO.:TL0036A REV.1

A. MAXIMUM RATING:

1. Operating temperature range: -40 °C to +85 °C

2. Storage temperature range: -40 °C to +85 °C

3. Impedance (Unbalanced) : 50Ω

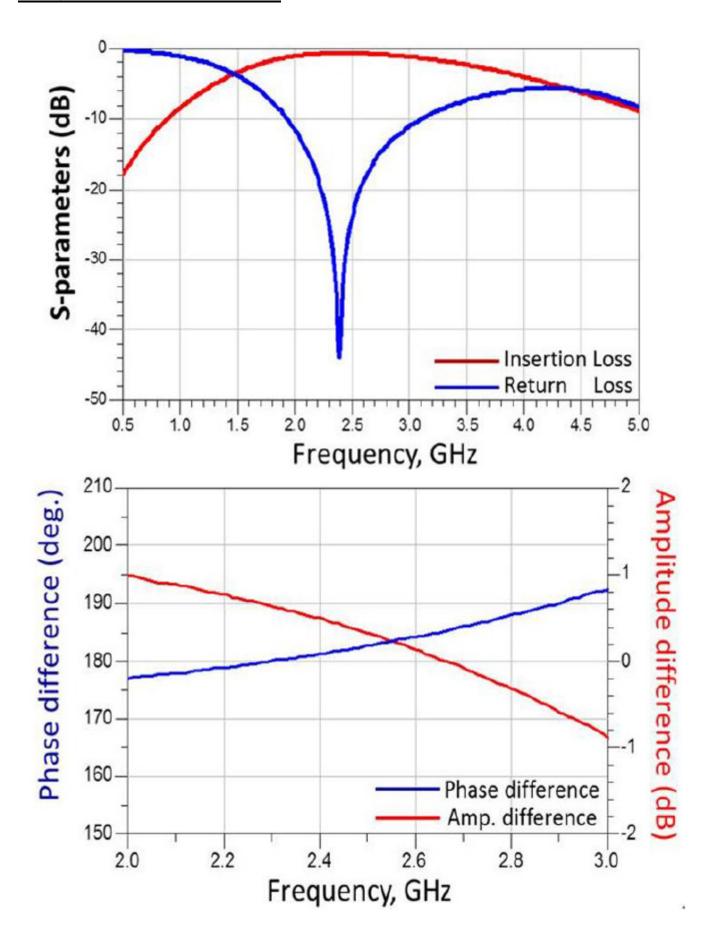
Electrostatic Sensitive Device (ESD)

4. Moisture Sensitive Level: Level 1 (MSL1) (Refer to: IPC/JEDEC J-STD-020)

B. <u>ELECTRICAL CHARACTERISTICS</u>:

Item	Specifications			
Frequency range	2400 ~ 2500 MHz			
Insertion Loss	1.2 dB max at 25 ℃ 1.5 dB max at -40 ℃ to +85 ℃			
Phase Difference	18 0°±10°			
Amplitude Difference	2.0 dB Max.			
VSWR	2.0 Max.			
Impedance (Unbalanced)	50Ω			
Impedance (Balanced)	50Ω			
Operating temperature Range	-40°C~85°C			
Moisture sensitivity levels	MSL is LEVEL 1 (Refer to : IPC/JEDEC J-STD-020)			

C. FREQUENCY CHARACTERISTICS:



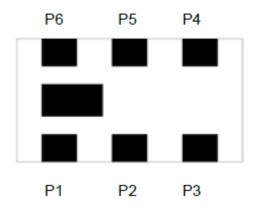
D. <u>OUTLINE DRAWING:</u>

DIMENSIONS

Figure			Symbol	Dimension (mm)
			L	1.60 ± 0.15
		∀ 1	w	0.80 ± 0.15
		ω, ω	T	0.50 ± 0.10
			Α	0.175 ± 0.15
			В	0.25 ± 0.15
			С	0.25 ± 0.15
	→ W →	_ T _	D	0.50 ± 0.15
Top view	Bottom view	Side view	E	0.20 ± 0.15

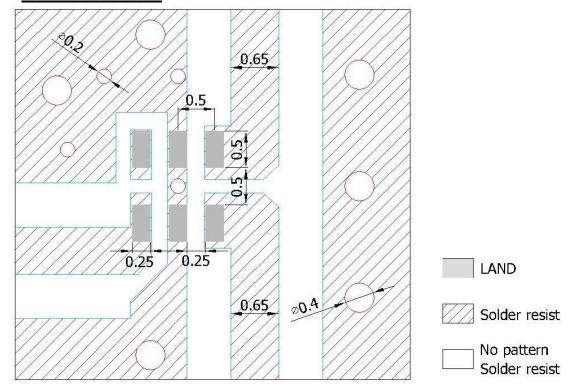
E. CONSTRUCTION:

Top view



PIN	Definition	PIN	Definition
P1	Unbalance Port	P4	Balance Port
P2	DC or GND	P5	GND
P3	Balance Port	P6	NC

F. PCB FOOT PRINT:



Unit: mm

Line width to be designed to match 50Ω characteristic impedance ,depending on PCB material and thickness.

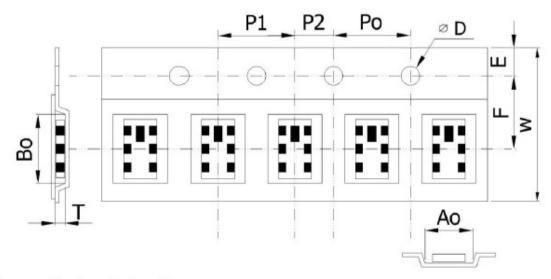
G. PACKING:

ORDERING CODE

RF	BLN	160805	0	Α	G7C5T
Walsin	Product Code	Dimension code	Unit of	Application	Specification
RF device	BLN: BALUN	Per 2 digits of Length, Width,	dimension	A : 2.4GHz ISM Band	Design Code
		Thickness:	0 : 0.1 mm		
		e.g. :	1 : 1.0 mm		
		160805=			
		Length 16,			
		Width 08,			
		Thickness 05			

Minimum Ordering Quantity: 4000 pcs per reel.

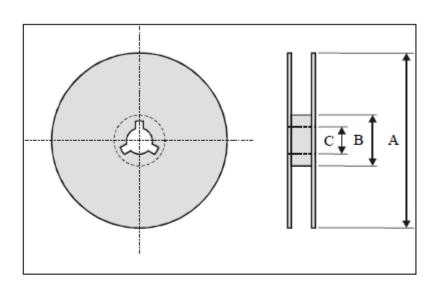
PACKAGING



Paper Tape specifications (unit :mm)

Index	Ao	Во	ΦD	Т	W
Dimension (mm)	0.975± 0.05	1.76 ±0.05	1.55 + 0.05	0.75 ± 0.10	8.00 ± 0.10
Index	E	F	Po	P1	P2
Dimension (mm)	1.750 ± 0.100	3.50 ± 0.050	4.00 ± 0.100	4.00 ± 0.100	2.000 ± 0.050

Reel dimensions



Index	Α	В	С
Dimension (mm)	Ф178.0	Ф60.0	Ф13.0

Taping Quantity: 4000 pieces per 7" reel

H. RECOMMENDED REFLOW PROFILE:

- 1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
- 3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C+0/-5°C peak (20~40sec).
- 4. Time: 2 times.

