

TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

	escription: Dielectric Chip Ar No.: TQ0091AA0000	ntenna 2450MHz	z BW 85MHz	z Size2.05x1.23mm
	Parts No.:			-
	Customer signature required			
	Company:			
	Division:			
	Approved by :			
	Date:			
C	Checked by:	Nina Chen	Nina C	hen
Д	approved by:	Nina Chen Kazuma Lee	Kasuma a	lee
C	Pate:			

- 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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Print Chip Antenna 2450MHz BW 85MHz Size2.05x1.23mm

MODEL NO.: TQ0091AA0000 REV. NO.:1.0

A. Maximum Rating:

1. Maximum Power: 4W

2.Operating Temperature: -40°C to +110°C

3.Storage Temperature: -10°C to +40°C

4. Moisture Sensitivity Level: Level 1 (MSL 1)

RoHS Compliant Lead free Lead-free soldering

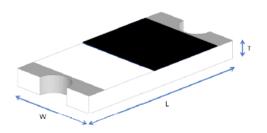
Electrostatic Sensitive Device (ESD)

B. <u>Electrical Characteristics</u>:

Item	Spec		
Central Frequency	2450 MHz		
Bandwidth	85MHz (min)		
Return Loss	-6.5dB (max)		
Peak Gain	1.72dBi		
Resistance to Soldering Heats	10 sec.(@260°C)		
Polarization	Linear		
Azimuth	Omni-directional		
Termination	Ni / Au (Leadless)		

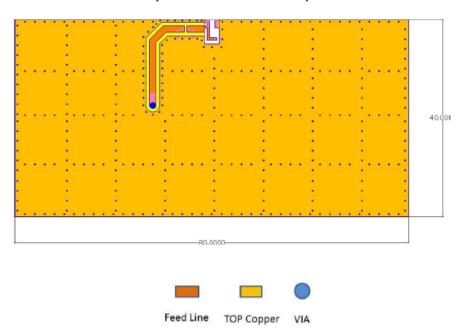
C. Dimension:

Antenna Dimension

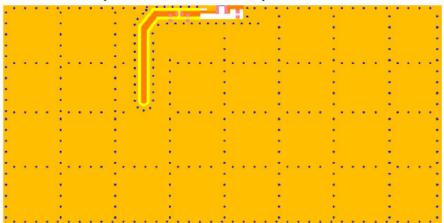


	Dimension (mm)		
L	2.05 ± 0.20		
W	1.23 ± 0.20		
T	0.45 ± 0.20		

Recommended PCB Pattern Evaluation Board Dimension (board size 80x40mm)



2nd Evaluation Board Dimension Evaluation Board Dimension (board size 80x40mm)

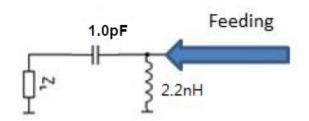


D. Matching Circuit:

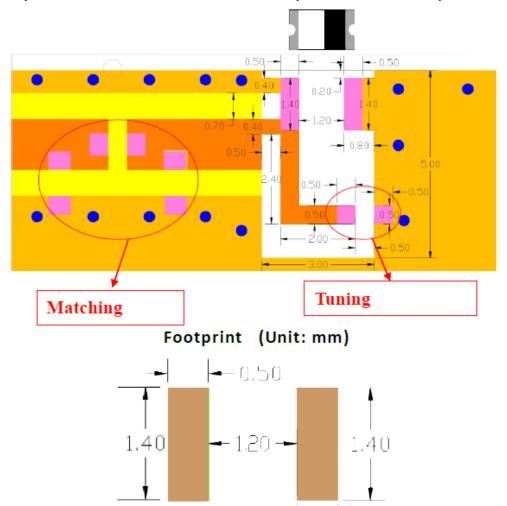
Suggested Matching Circuit

Important information:

For matching components, it is recommended to use high-precision inductors $\pm 0.1 \sim 0.3$ nH and capacitors ± 0.1 pF

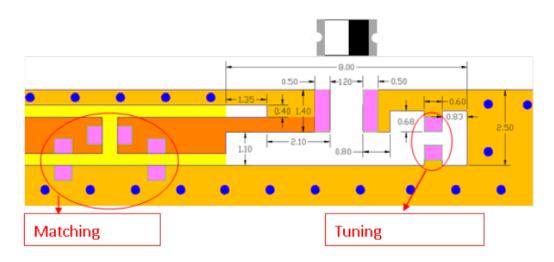


Layout Dimensions in Clearance area (Size=3.0*5.0mm)



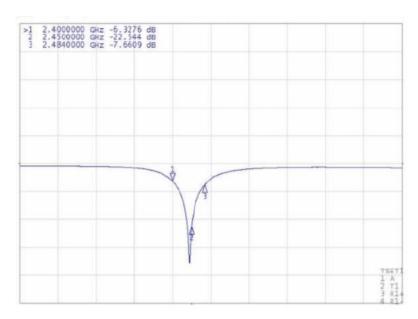
2nd Layout Dimensions in Clearance area (Size=8.0*2.5mm)

0.50 -

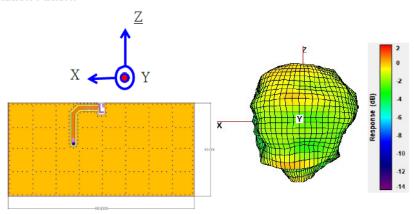


E. <u>Frequency Characteristics</u>:

Return Loss

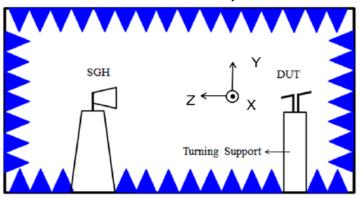


Radiation Pattern



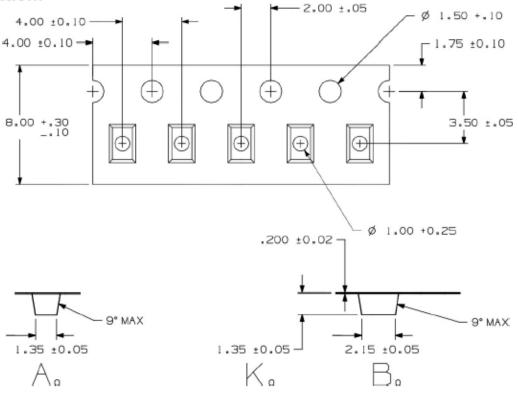
	Efficiency	Peak Gain	Directivity
2400MHz	63.12 %	1.62dBi	3.61dBi
2450MHz	70.56 %	1.72dBi	3.23dBi
2500MHz	65.48 %	1.64dBi	3.47dBi

Chamber Coordinate System

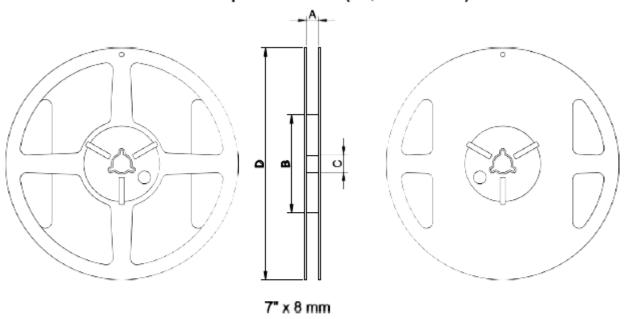


F. Packing:

Tape Specification:



Reel Specification: (7", Ф180 mm)



Tape Width(mm)	A(mm)	B(mm)	C(mm)	D(mm)	Chip/Reel(pcs)
8	9.0±0.5	60±2	13.5±0.5	178±2	3000

G. Recommended Solder Profile:

