

TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description:Multilayer ceramic Chip Antenna 7370MHz BW 2260MHz

Size 3.2x1.6mm

TST Part No.: TQ0086AA0000

Customer Part No.:

Customer signature required	
Company:	-
Division:	_
Approved by :	_
Date:	

Checked by:	Nina Chen	Nina Chew
Approved by:	Kazuma Lee	Kasuma Jee
Date:	2022/09/08	

- 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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TST DCC Release document



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Multilayer ceramic Chip Antenna 7370MHz BW 2260MHz Size 3.2x1.6mm

MODEL NO.: TQ0086AA0000 REV.1

A. Maximum Rating:

1. Input Power: 3W max

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

3. Storage temperature range: +5°C to +40°C

4. Moisture Sensitive Level: Level 1



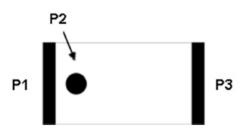
Electrostatic Sensitive Device (ESD)

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

Item		Unit	Spec	Note
Center frequency	6240~8500 MHz	MHz	7370	
VSWR	6240~8500 MHz	dB	2max	
Gain	6240~8500 MHz	dBi	3~4.5	
Efficiency	6240~8500 MHz	%	70~80	
Polarization	6240~8500 MHz	-	Linear	
Azimuth Beamwidth	6240~8500 MHz	-	Omni - Directional	

C. <u>Outline Drawing:</u>

CONSTRUCTION

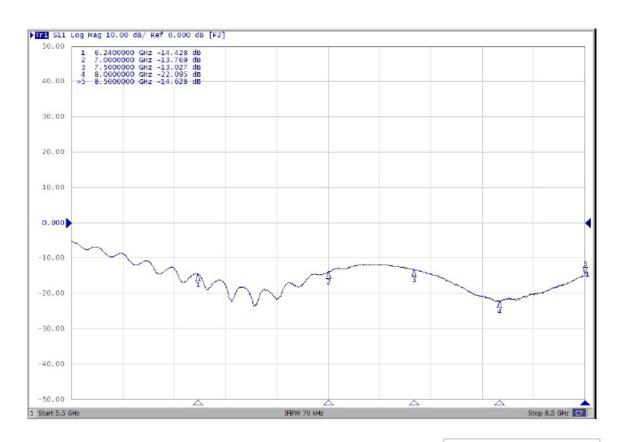


PIN	Connection		
1	Feeding		
2	Identification Mark		
3	Soldering terminal		

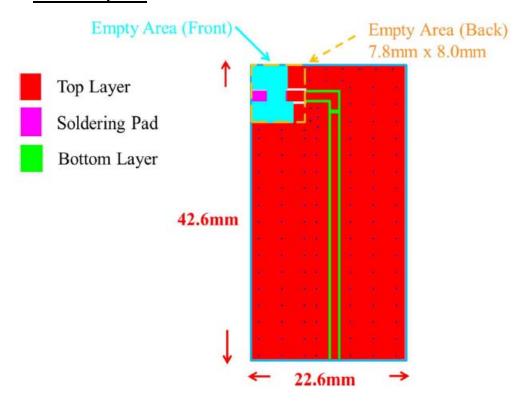
DIMENSIONS

Figure	Symbol	Dimension (mm)
₩ <u></u>	L	3.20 ± 0.20
	w	1.60 ± 0.10
	Т	1.10 ± 0.10
	Α	0.25 ± 0.15

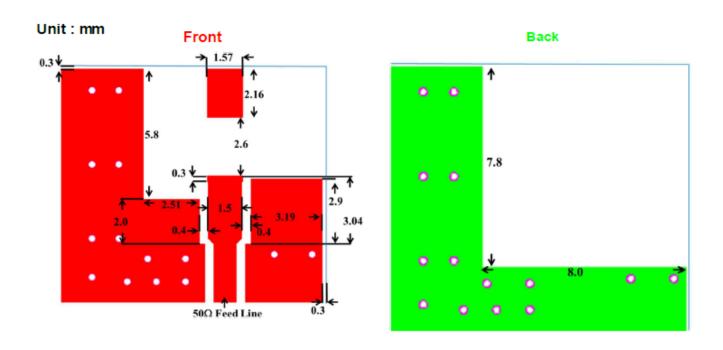
D. Frequency Characteristics:



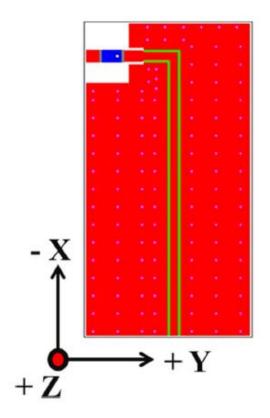
E. PCB Footprint:

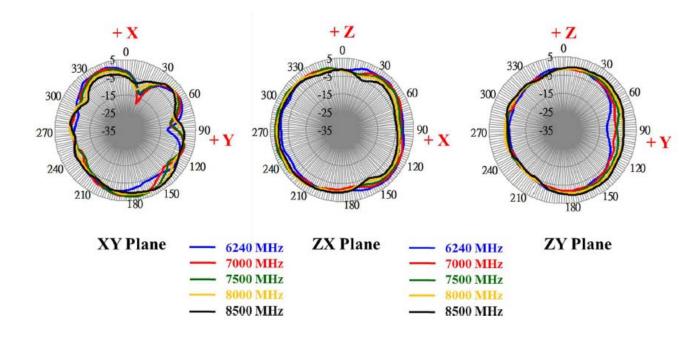


Antenna on Test Board (Thickness 0.8 mm)

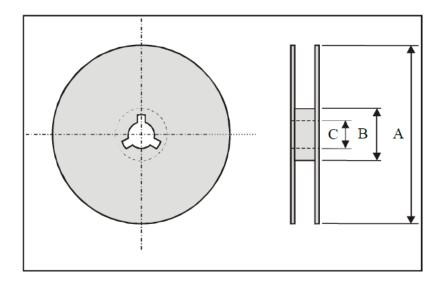


Radiation Patterns





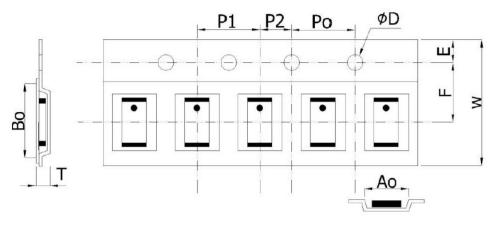
F. <u>Packing</u>: 1. Reel Dimension



Index	Α	В	С
Dimension (mm)	Ф 178	Φ 60.0	Ф 13.5

Typing Quantity: 2000 pieces per 7" reel

2. Tape Dimension



Plastic Tape specifications (unit :mm)

Index	Ao	Во	ΦD	Т	W
Dimension (mm)	1.81± 0.10	3.42 ± 0.10	1.55 ± 0.05	1.26 ± 0.10	8.20 +0.10
					-0.30
Index	Е	F	Ро	P1	P2
Dimension (mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10

G. Recommended Reflow Profile:

Typical examples of soldering processes that provide reliable joints without any damage are given in Fig This product could sustain by reflow process three times, and the temperature below 260 °C.

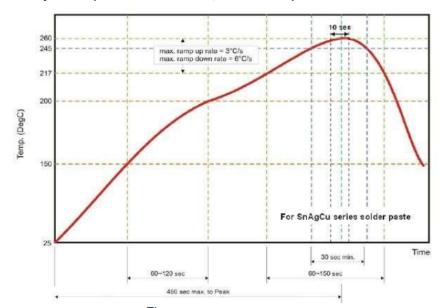


Fig. Infrared soldering profile