

TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: Multilaye Size 3.2		MHz BW 2260MHz
TST Parts No.: TQ0196AW00		nt with AEC-Q200)
Customer Parts No.:		,
Customer signature re	equired	
Company:		
Division:		
Approved by :		
		_
	Nina Chen	
Approved by:	Nina Chen Kazuma Lee	Kasuma Jee
Data	2022/04/44	

- 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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Multilayer Ceramic Antenna 7370MHz BW 2260MHz Size 3.2x1.6mm

MODEL NO.: TQ0196AW0000 REV. NO.:1.0

A. Maximum Rating:

1. Operating Temperature Range: -55°C to +125°C

2.Storage Temperature Range: -55°C to +125°C

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

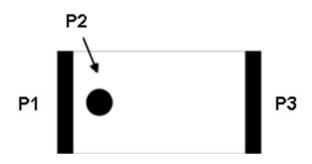
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

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

Parameter	Specification	
Working Frequency	6240 ~ 8500 MHz	
VSWR	2 max	
Gain	3 – 4.5 dBi	
Efficiency	70 – 80 %	
Power Capacity	3 W max.	
Maximum Input Power	5 Watts for 5 minutes	
Polarization	Linear	
Azimuth Beamwidth	Omni - Directional	

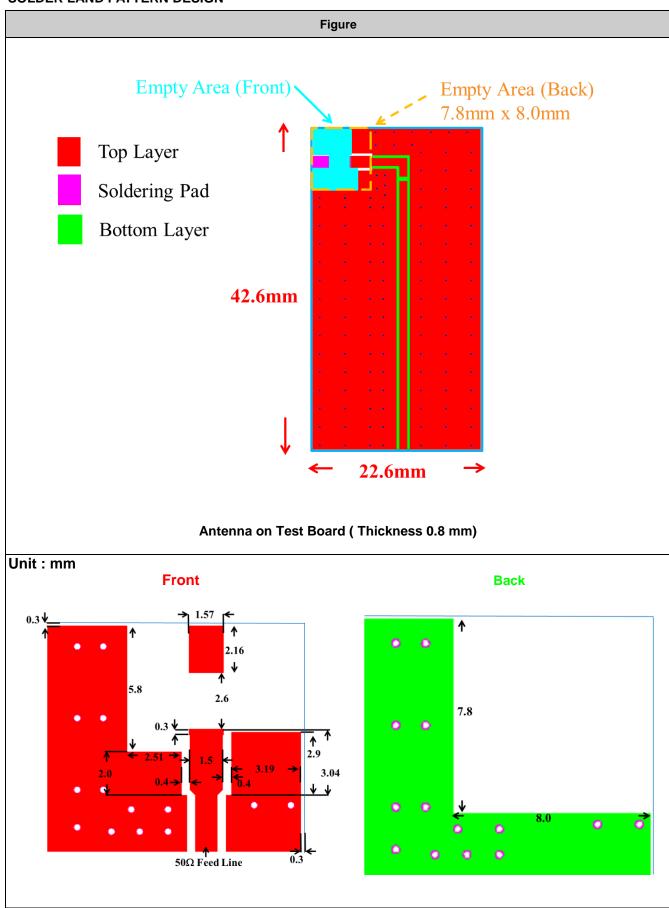
C. <u>Dimension:</u>



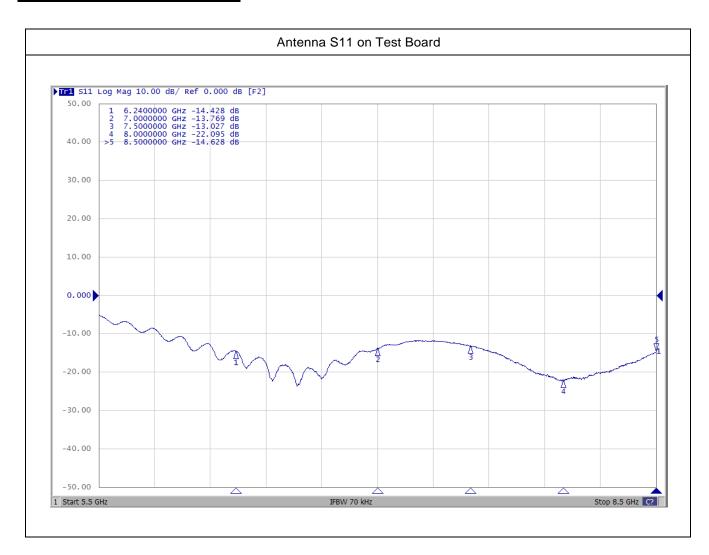
PIN	Connection	
1	Feeding	
2	Identification Mark	
3	Soldering terminal	

Figure	Symbol	Dimension (mm)
₩	L	3.20 ± 0.20
	W	1.60 ± 0.10
	Т	1.10 ± 0.10
	А	0.25 ± 0.15

SOLDER LAND PATTERN DESIGN

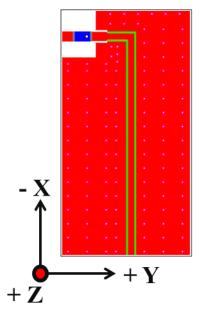


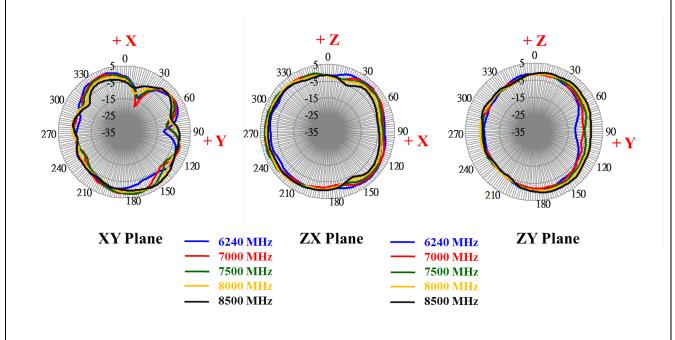
D.Frequency Characteristics:



RADIATION PATTERNS

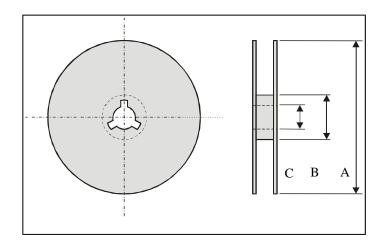
Radiation Pattern and Gain were dependent on measurement board design. The specification of DCA60S04 antenna was measured based on the PCB size and installation position as shown in the below figure Test Board.





D. Packing:

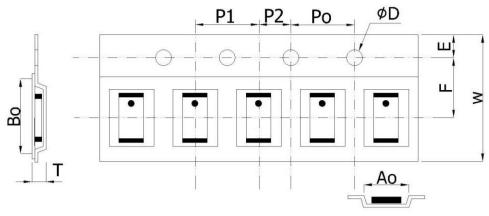
1.Reel Dimensions:



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

Typing Quantity: 2000 pieces per 7" reel

2. Tape Dimensions:



(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	E	F	Po	P1	P2
Dimension (mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10

E. 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 $260\,^{\circ}\text{C}$.

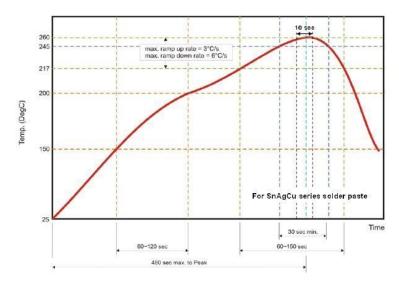


Fig . Infrared soldering profile