



APPROVAL

CUSTOMER : ***

ITEM	DIELECTRIC CHIP ANTENNA
PART NO	JTCA006A
SERIAL NO	JTCP14-R&D-006A
DATE	27. Ja. 2015

DESIGN	CHECK	APPROVAL
STON	JACK CHEN	JACK CHEN

JIASHAN JINCHANG ELECTRON CO.,LTD

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CUSTOMER	MANUFACTURER	SPECIFICATION	SERIAL NO : JTCP14-R&D-006A
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1. PART NO :

JTCA006A

2. TEST CONDITIONS :

1) NORMAL CONDITION :

TEMPERATURE 20℃, HUMIDITY 60% RH.

2) STANDARD CONDITION :

TEMPERATURE 5 TO 35℃, HUMIDITY 45 TO 85% RH.

3. COMPOSITION AND MATERIALS :

NO	PART NAME	COMPOSITION AND MATERIALS
1	ROHS ABOUT MATERIAL	APPLIED
2	ELECTRODE	SILVER
3	ELECTRODE PLATING ADHESION (PEEL STRENGTH)	Min. 4 kg in 10mm square at the corner

4. ROUTINES:


1) OPERATION TEMPERATURE RANGE : -40 ~ +85℃

2) OPERATING HUMIDITY RANGE : 5 TO 95% RH

3) STORAGE TEMPERATURE RANGE : -35 ~ +80℃

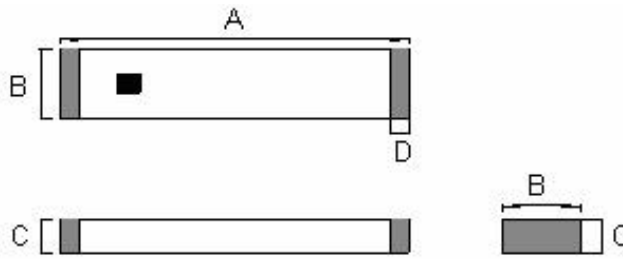
4) STORAGE PERIODS : 12 Months Max.

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5. APPEARANCE AND DIMENSIONS:

5-1. DIMENSION :



$$A=3.2\pm 0.2 \quad B=1.6\pm 0.2 \quad C=1.2\pm 0.2 \quad D=0.5\pm 0.2 \quad (\text{MM})$$

	No.	Terminal Name	No.	Terminal Name
	(1)	Feeding Point	(2)	NC

6. ELECTRICAL CHARACTERISTICS:

Electrical specification @+25°C

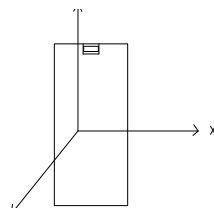
Note: Electrical characteristics depend on test board(GP) size and antenna positioning on GP and ground clearance area size.

No.	ITEM	SPEC	Unit
1	Frequency Range	2450.0 ± 3	MHz
2	Return Loss at Center Frequency	10.0	dB
3	Bandwidth in -10 dB	100 Min.	MHz
4	Impedance	50	Ω
5	Polarization	Linear	
6	Gain (peak)	-1	dBic
7	Linear Max Gain (peak)	0.5	dBic
8	Operation Temperature Range	-40°C to +85°C	


7. TEST FIXTURE AND ANTENNA SETUP & MEASUREMENT

Gain is measured at CIROCOMM PCB (MM)

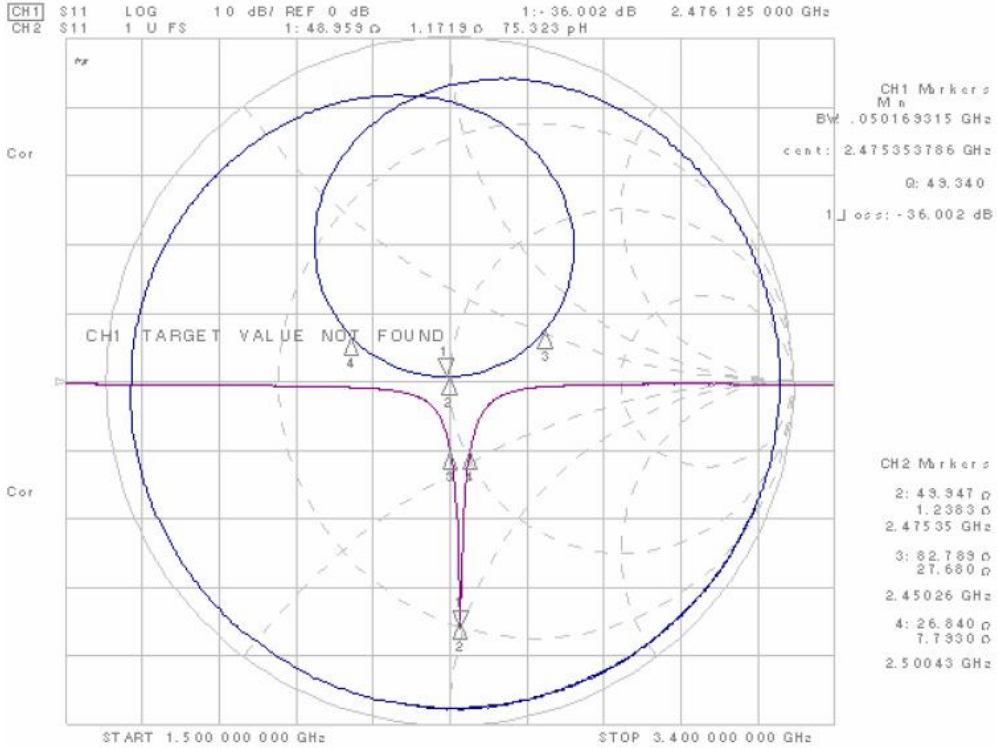
Ant position: middle



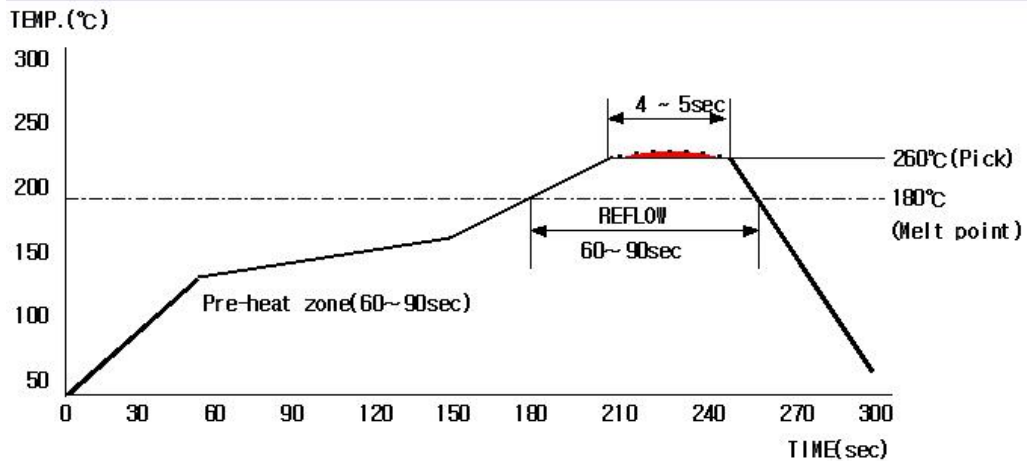
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8. Return Loss at Center Frequency :




9. REFLOW SOLDERING CONDITION:



Solder :Sn/3.0Ag/0.5 Cu

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10. MECHANICAL PERFORMANCE :


ITEMS	CONDITIONS	SPECIFICATIONS
VIBRATION TEST	Freq. : 10 ~ 55 Hz Amplitude : 1.5 mm Duration :X、 Y、 Z 2 hours per each axis of X,Y and Z crossing axes.	①Electrical performance requirements must be satisfied for clause No.6. ② No excessive changes in Appearance may be observed.
DROP SHOCK	3 times non-accelerated natural drops from 70cm above a wood board.	
CONDUCTOR THICKNESS	Conductor electrode : Silver Silver thickness : 5 ~ 20 μm	
TENSILE STRENGTH (PULL OUT)	Adhesion strength : 4kgf/cm ² Min. Measurement M/C : FORCE GAUGE Method : After attaching lead pin on the surface of antenna, using the tensile test M/C pull out each other side.	

11. INSPECTION DATA:

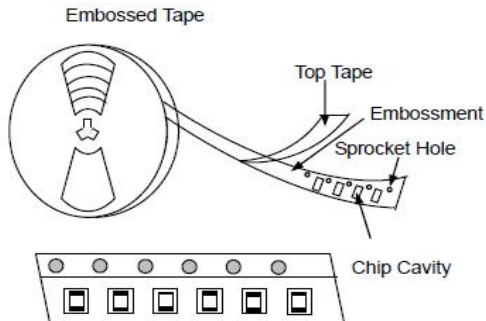
THE FOLLOWING ITEMS SHALL BE DESCRIBED IN THE INSPECTION DATA SHEET AND ONE COPY OF THE SHEET IS SUBMITTED WITH UNIT AT EACH SHIPMENT.

- 1) SPECIFICATION
- 2) MODEL NO.
- 3) PRODUCTION LOT NO.
- 4) SHIPMENT QUANTITY AND INSPECTED QUANTITY
- 5) ELECTRICAL CHARACTERISTIC DATA
- 6) TEST CONDITION

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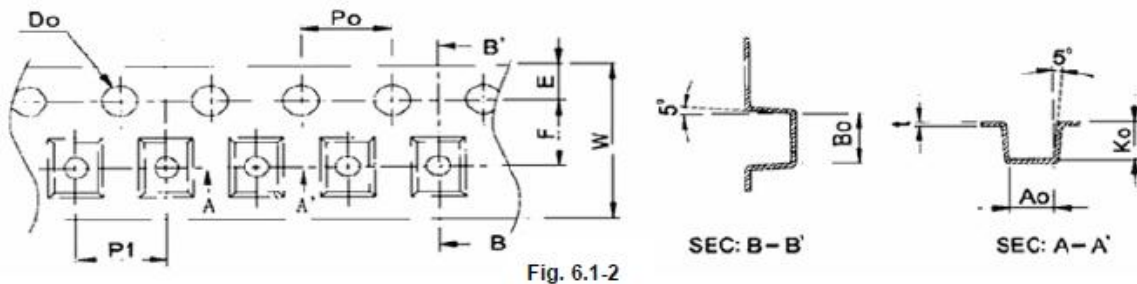
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12. Delivery Mode:



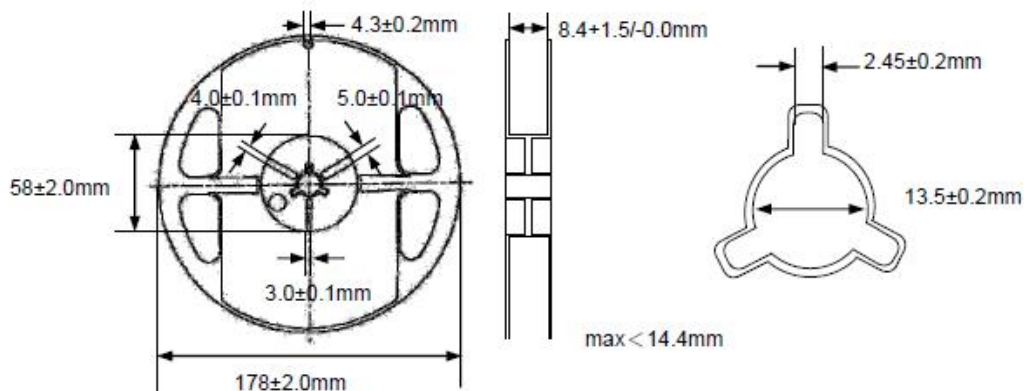
Type	3216[1206]
Tape	Embossed Tape
Quantity	3K

Taping Dimensions (Unit: mm)




Type	W	P1	E	F	D0	P0	K0	A0	B0	t
Tolerance	±0.1	±0.1	±0.1	±0.15	+0.1/ -0.0	±0.1	±0.1	±0.1	±0.1	±0.05
SLDA31	8.00	4.00	1.75	3.5	1.5	4.0	1.50	1.80	3.50	0.22

Reel Dimensions (Unit: mm)



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13. OTHERS:

IN CASE OF ANY PROBLEM REGARDING THIS SPECIFICATION, BOTH *CUSTOMER* AND *Jiashan Jinchang* DISCUSS AND SOLVE IT.

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