

DEVETECH ELECTRONICS
SPECIFICATION FOR APPROVAL

Customer:

Product Name: Power Inductors

Parts No: ZW1307-821KT

Customer Parts No:

Quantity : 10PCS

Date: 2024-05-31

No: IND24053101

APPROVAL SIGNATURE

APPROVED BY	Q.C.DEPT.	CHECKED BY	DRAWN BY
王俊	陈远宏	成慧	余国霞

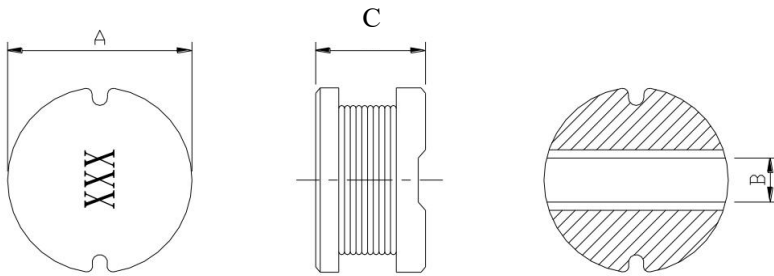
SPECIFICATIONS

1. Scop

This specification apply for CD1307 of power inductors

2. Appearance

2-1.Dimensions(mm)



2-2. Recommended Land

DIMENSIONS	A	B	C
unit (mm)	13.3MAX	5.0 typ	7.3MAX

3. Coils Specification

3-1. Connection (Bottom View)



“S” is winding start

3-2. Electrical characteristics

Item	Specifications	Measuring Conditions	Measuring Instrument
Inductance	820uH± 10%	100KHZ 0.25V	HP-4284A
D.C.R	1.30Ω MAX	25°C	HP34401A
IDC※	1.1A MAX	25°C	HP4284A&HP42841A

※This indicates the value of current when the inductance is 35% lower than its initial value at D.C superposition or D.C current when temperature rise ΔT=40°C whichever is lower .(Ta=20°C)

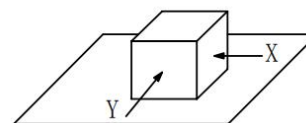
4. General Characteristics

4-1. Storage Temperature range : -40°C ~ +100°C

4-2. Operating temperature range: -40°C ~ +100°C (Including coil's self temperature rise)

4-3. External appearance : No external defects can be found in the visual inspection.

4-4. Electrode strength : No electrode detachment should be found when the device is pushed in two directions of X and Y with the force of 5.0N for 10±2 seconds after soldering between copper plate and the electrodes. (Refer to figure at right)

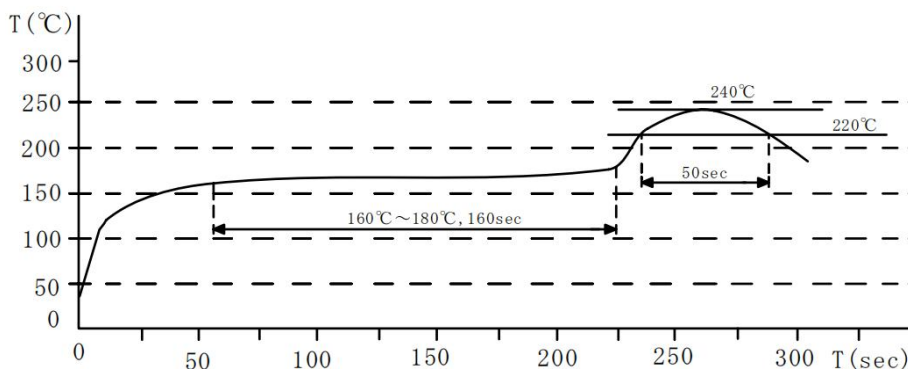


4-5. Temperature feature : Inductance coefficient is $(0 \sim 2000) \times 10^{-6} / ^\circ\text{C}$ (-25°C ~ +80°C)

4-6. Vibration test : Inductance deviation is within ±3.0% after 1 hour sweeping vibration

in each three directions, namely, forward and backward, up and down, right and left. The frequency is 10~55~10Hz and the amplitude of 1 minute cycle is 1.5mm PP.

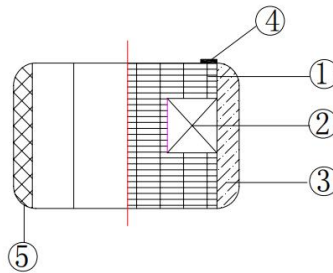
4-7. Recommended reflow condition :



4-8.Shock test : Inductance deviation is within $\pm 3.0\%$ after the test with gum-block shock testing machine, once in each of the three perpendicular axis directions. The shock acceleration is 981m/s^2 .

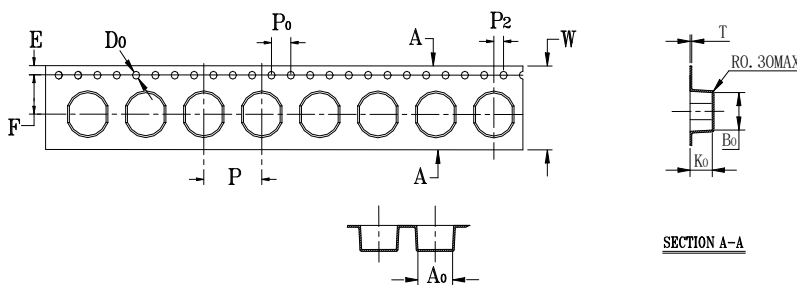
4-9.Humidity test : Inductance deviation is within $\pm 5.0\%$ after 96 ± 4 hours test under the condition of relative humidity of $90\sim 95\%$ and temperature of $40\pm 2^\circ\text{C}$, and 1 hour storage under room ambient conditions after the device is wiped with dry cloth.

五、 Construction and materials:



No:	Part name	Material	UL No:	
1.	Core	Ni-Zn Ferrite Core	/	
2.	WIRE	2UEW 180°C	E258243	
4.	Electrode	Sn99.3/Cu0.7	/	

六、 Packing specification:



SERIES	DIMENSIONS(mm)						Q'TY(PCS)
	W	T	P	A0	B0	K0	500PCS
CD1307	24	0.4	14.0	13.45	13.35	7.4	