SPECIFICATION FOR APPROVAL

承　　認　　書

CUSTOMER 客户名稱：	**NUMBER** 编号: L072-047
DESCRIPTION 品　名：　**SMD POWER INDUCTORS**	**QUANTITY** 數量：20PCS
PART NO. 型　號：　**CDH129 – 470M**	**DATE** 日期：　2023-09-13
CUSTOMER PART NO. 客戶料號：	**NOTE** 注解：

APPROVAL SIGNATURE 客戶承認簽章

Approved By 核　准	Checked By 审　查	Drawn By 制　作
李庆辉	刘志坚	劳水花

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Http://www.szceaiya.com　　**Tel:** 0769-89135516　　**Fax:** 0769-89135519

CUSTOMER:	SPECIFICATIONS （Revisions）	TYPE **CDH129–470M**

History of change

Rev.	Effective Date	Changed Contents	Change reasons	Approved By
A0	2016.01.25	New release	/	

SPECIFICATIONS

TYPE:

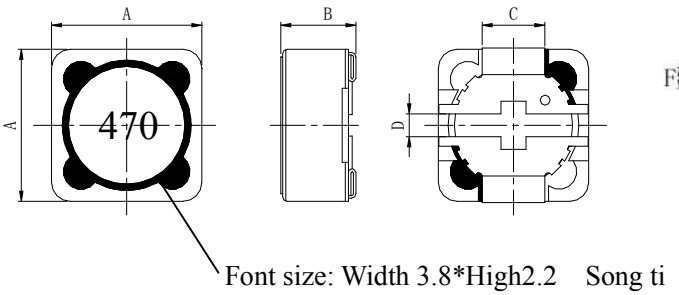
CDH129–470M

1. Scope

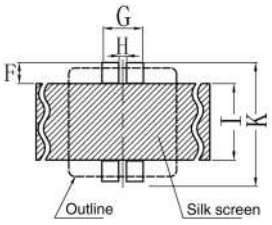
This specification apply for CDH129 of power inductors

2. Appearance

2-1.Dimensions(mm)



2-2.Recommended Land

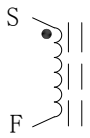


A	12.3mm(Max)
B	9.8mm(Max)
C	5.0 mm
D	2.0 mm
F	2.8 mm
G	5.4 mm
H	0.5 mm
I	7.0 mm
K	12.8 mm

* Dimension without tolerance is approx.

3. Coils Specification

3-1. Connection (Bottom View)



"S" is winding start

3-2. Turns and Wire

Terminal	S-F
Turns	24.5 Ts
Wire	0.38mm*2P G1 P180

* Winding Turns are approx.

LEAD-FREE

RoHS Compliance

Note：	Spec. No. L072-470

eaiya

3-3. Electronical characteristics

Item	Specifications	Measuring Conditions	Measuring Instrument
Inductance	47μH ± 20%　Within	1KHz/0.25V	CH1062
D.C.R	66mΩ　Max	25℃	HIOKI 3540
Isat※	4.0A Max	1KHz/0.25V	CH1062&Chroma1320
I.D.C※	3.3A Max	25℃	CH1062&Chroma1320

※ 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℃　whichever is lower .(Ta=20℃)

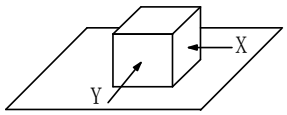
4. General Characteristics

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

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

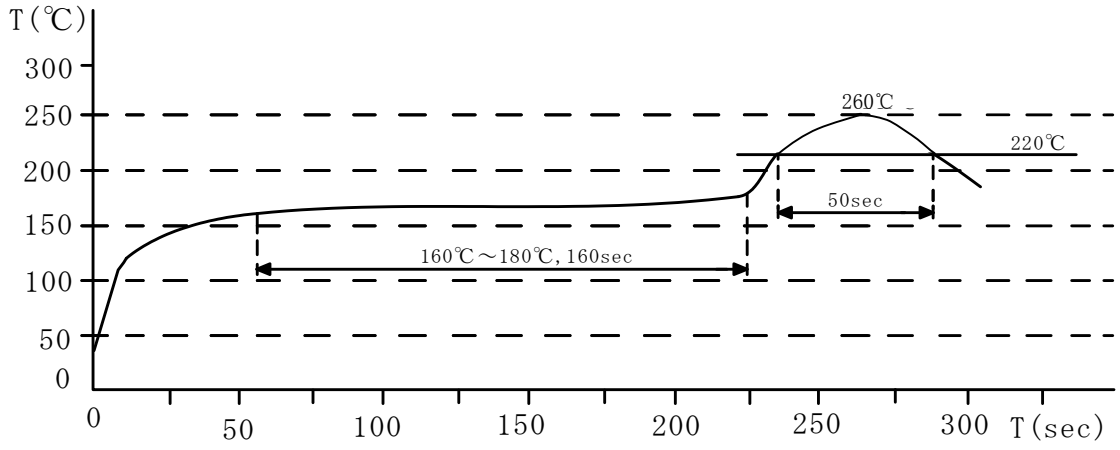
4-3.External appearance : No external defects can be found in the visual inspection.

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)



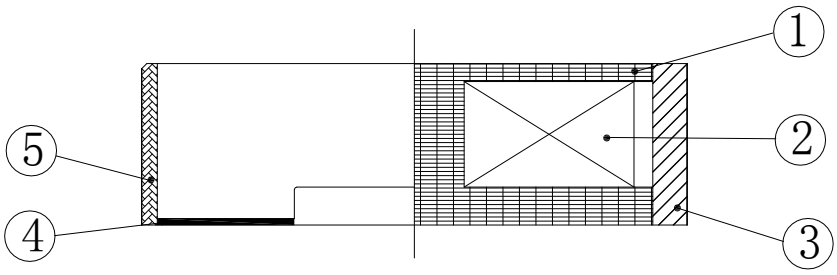
4-5.Vibration test : Inductance deviation is within ±3.0% after 1 hour sweeping vibration in each three directions, namely, forward and backward, up and down, right and left. The frequency is 10～55～10Hz and the amplitude of 1 minute cycle is 1.5mm PP.

4-6.Recommended reflow condition :



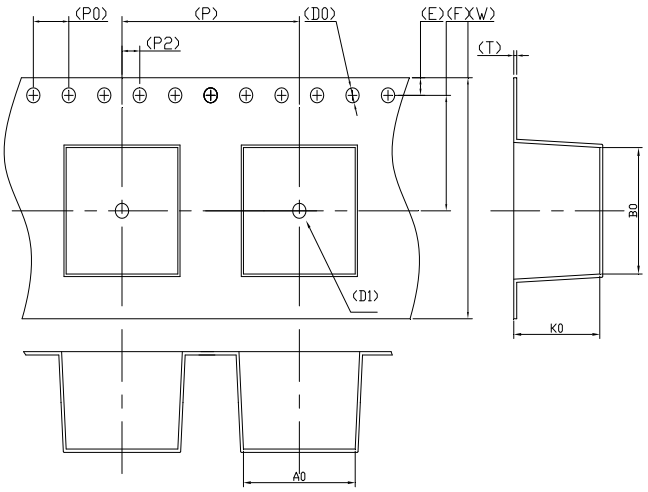
4-7.Humidity test : Inductance deviation is within ±5.0% after 96±4 hours test under the condition of relative humidity of 90～95% and temperature of 40±2℃, and 1 hour storage under room ambient conditions after the device is wiped with dry cloth.

5. Construction and materials

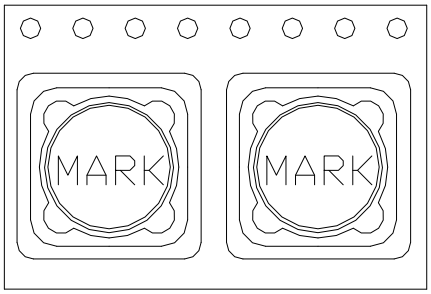


No.	Part name	Material	Ceaiya P/N
①	Drum Core	Ni-Zn Ferrite Core	(TY)
②	Wire	Polyurethane enameled copper wire	3210380
③	Ring Core	Ni-Zn Ferrite Core	(TY)
④	Adhesive	Epoxy Resin	7001006(007)
⑤	Electrode	Cu＋Sn plating	(LC)

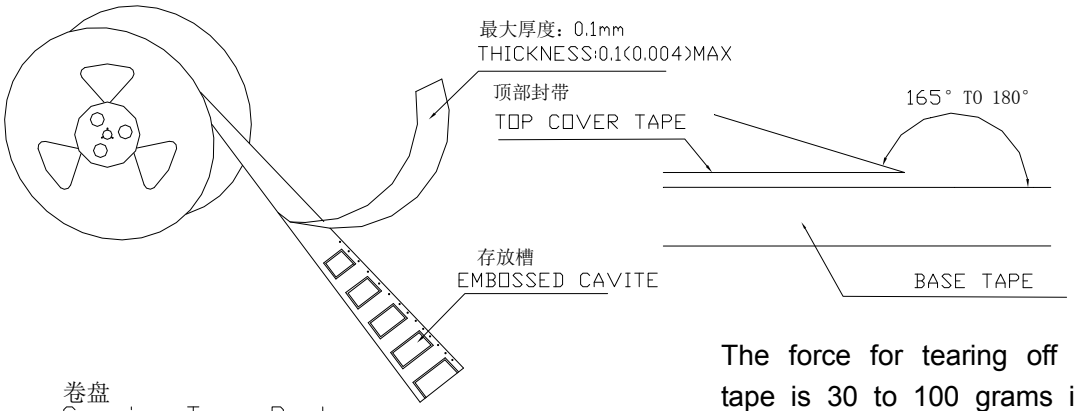
6. TAPE DIMENSIONS:

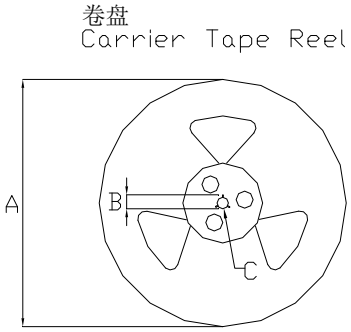


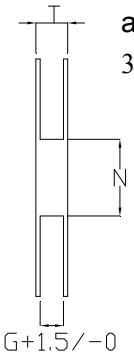
W	24.00±0.30	P	16.00±0.10	A0	12.60±0.10	D1	ø1.50MIN
T	0.50±0.05	P0	4.00±0.10	B0	12.60±0.10	D0	$\phi 1.50^{+0.10}_{0}$
E	1.75±0.10	P2	2.00±0.10	K0	10.0±0.10	F	11.50±0.10



7. TAPE REEL DIMENSIONS:







The force for tearing off cover tape is 30 to 100 grams in the arrow direction/按箭头的方向施加 30 克至 100 克力撕开

材质：纸/塑胶
MATERIAL: PAPER/PLASTJC

单位：毫米

Type	A	B	C	G	N	T
24mm	330	21±0.8	13±0.2	24.4	100	28.4

PACKAGING QUANTITY：
250 PCS /REEL