SPECIFICATION FOR APPROVAL

承　　認　　書

CUSTOMER 客户名稱：	**NUMBER** 编号: Y-13052301
DESCRIPTION 品　名：**SMD POWER INDUCTORS**	**QUANTITY** 數量： 100PCS
PART NO. 型　號： **CR6045－681M**	**DATE** 日期： **2022-11-07**
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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CUSTOMER:	SPECIFICATIONS （Revisions）	TYPE **CR6045–681M**

History of change

Rev.	Effective Date	Changed Contents	Change reasons	Approved By
A0	2022-9-6	New release	/	

Note：	Spec. No. Y-13052301

SPECIFICATIONS

TYPE:

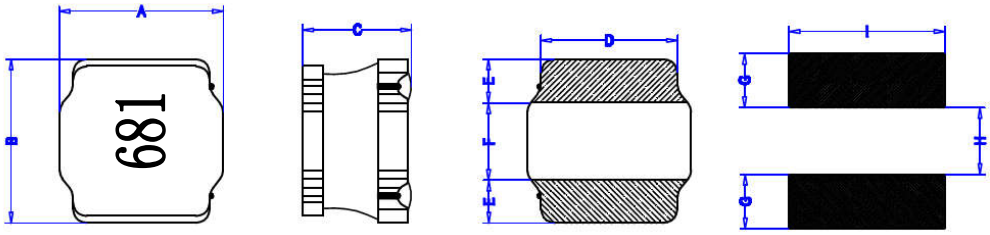
CR6045－681M

1. Scope

This specification apply for CR6045 of power inductors

2. Appearance

2-1.Dimensions(mm)

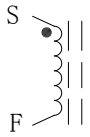


A	6.0 ± 0.3 mm
B	6.0 ± 0.3 mm
C	4.0 ± 0.5 mm
D	4.9±0.3 mm
E	1.65±0.3 mm
F	2.7±0.3 mm
G	1.7 mm
H	2.8 mm
I	5.7 mm

* 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	132.5 Ts
Wire	ϕ0.12mm G1 P180

* Winding Turns are approx.

LEAD-FREE

RoHS Compliance

Note：	Spec. No. Y-13052301

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3-3. Electronical characteristics

Item	Specifications	Measuring Conditions	Measuring Instrument
Inductance	680μH ± 20%　Within	100KHz/0.25V	CH1062/HIOKI3532-50
D.C.R	3.7Ω(Max)	25℃	HIOKI 3540
Isat 1*	0.4A	100KHz/0.25V	Microtest 6377&6220
Irms 2*	0.3A	25℃	Microtest 6377&6220

※　1. This indicates the value of current when the inductance is 30% lower than its initial value at D.C superposition

※　2. D.C current when temperature rise ΔT=40℃　whichever is lower .(Ta=20℃)

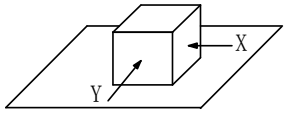
4. General Characteristics

4-1. Storage Temperature range : -40℃～ ＋105℃

4-2.Operating temperature range: －40℃ ～ ＋125℃ (Including coil's self temperature rise)

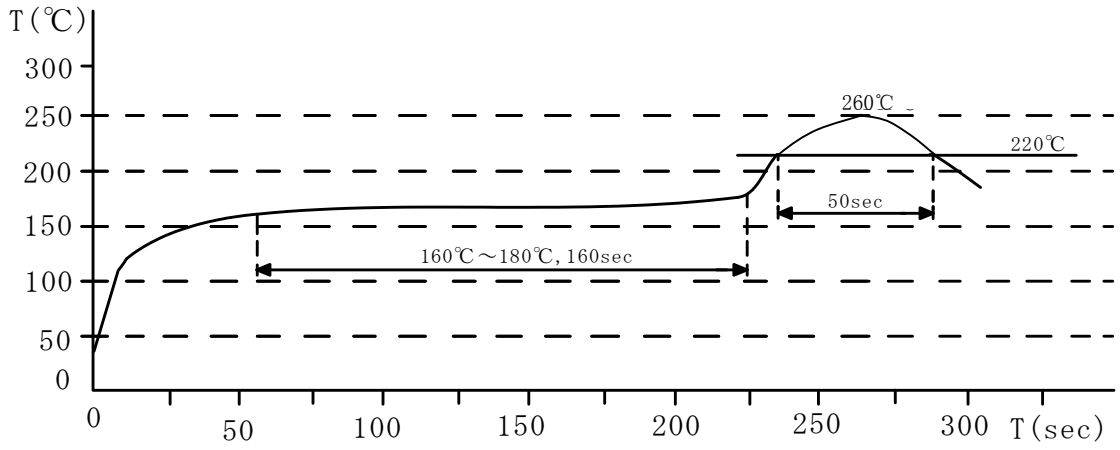
4-3.External appearance : No external defects can be found in the visual inspection.

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 10.0N for 10±2 seconds after soldering between copper plate and the electrodes. (Refer to figure at right)



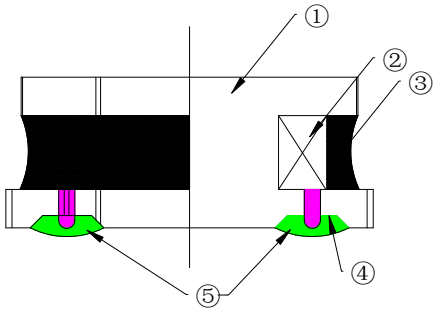
4-5.Vibration test : Inductance deviation is within ±10.0% after 1 hour sweeping vibration in each three directions, namely, forward and backward, up and down, right and left. The frequency is 10～55～10Hz and the amplitude of 1 minute cycle is 1.5mm PP.

4-6.Recommended reflow condition :



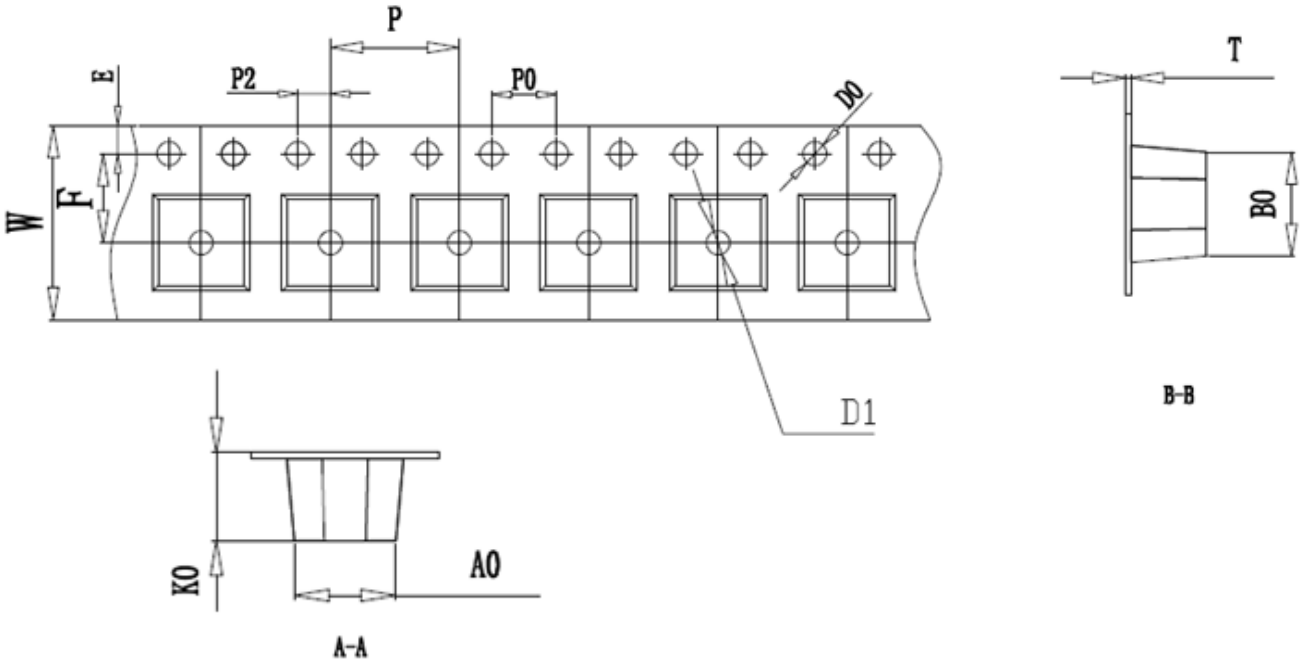
4-7.Humidity test : Inductance deviation is within ±5.0% after 96±4 hours test under the condition of relative humidity of 90～95% and temperature of 60±2℃, and 1 hour storage under room ambient conditions after the device is wiped with dry cloth.

5. Construction and materials

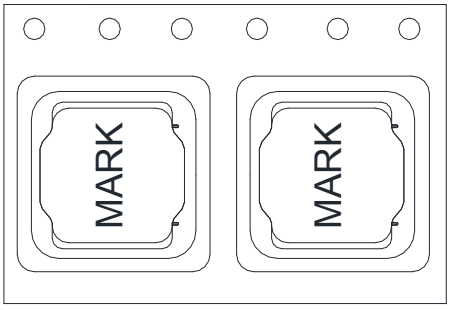


No.	Part name	Material	Ceaiya P/N
①	Drum Core	Ni-Zn Ferrite Core	TW/CY
②	Wire	Polyurethane enameled copper wire	YLSL
③	Adhesive	Epoxy Resin Magnetic Powder	
④	Plating Electrodes	Plating: Ag 3-7 μm Ni 1-3 μm Sn 3-7 μm	
⑤	Outer Electrodes	Top surface solder coating Sn99%、Ag0.3%、Cu0.7%	YX

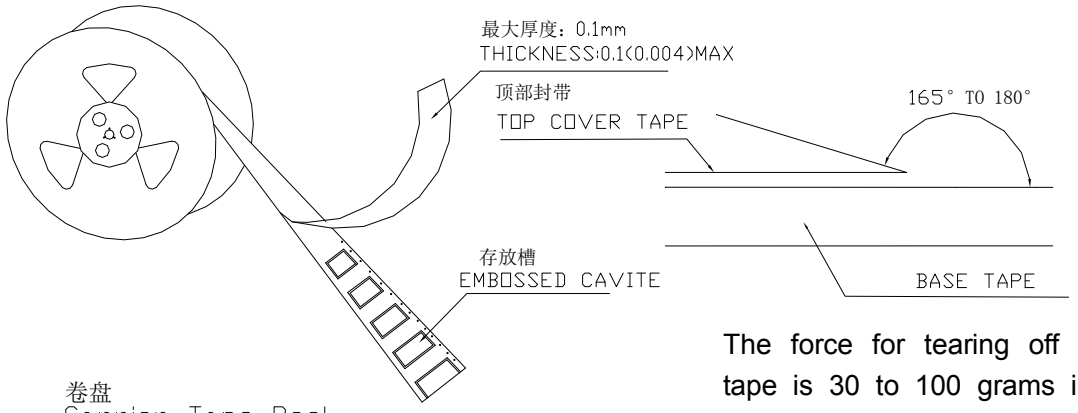
6. TAPE DIMENSIONS:



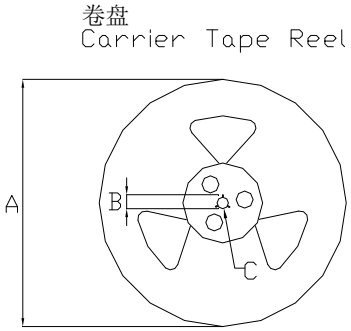
ITEM	W	A0	B0	K0	P1	F	E	D0	P0	P2	T
DIM	12.00	6.3	6.3	4.7	8.00	5.50	1.75	1.50	4.00	2.00	0.40
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

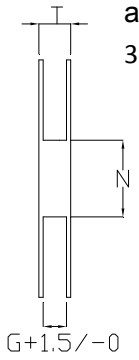


7. TAPE REEL DIMENSIONS：



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





单位：毫米

Type	A	B	C	G	N	T
12mm	330	21±0.8	13±0.4	12.0	100	16.4

PACKAGING QUANTITY：

1500 PCS /REEL