



ACME Electronics Corporation
越峯電子材料股份有限公司

客戶

CUSTOMER

Platan

日期

DATE

2023.11.20

認 可 書
SPECIFICATION FOR APPROVAL

客戶品名 CUSTOMER P/N		
越峰品名 ACME P/N	P4POT48CH	
認可書編號 SPEC. NO.		

為保證訂單順利完成，請在一個月內簽回。否則，將默認貴司同意依此份認可書內容製作您所有此規格的訂單產品。

In order to ensure the leadtime for your order, pls confirm and sign this spec for ACME within one month while you received it. Or else, it means that you have approved this spec, and you have agreed with that ferrite cores from your order be produced according to this spec.

客戶認可 APPROVED BY :

如有客戶品碼（料號），請填寫在下
客戶品碼（料號）：
CUSTOMER P/N

承認書製作廠別 Factory

■廣州廠：越峰電子(廣州)有限公司 / 中國廣東省廣州增城市增江街東區府前路7號
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AR01-60106-02



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歷史變更記錄
REVISION RECORDS LIST

客戶 CUSTOMER: Platan	P/N	P4POT48CH
	SPEC./N	

I .更改記錄 REVISION RECORD:

版本號 REV. NO.	更改內容及原因 CONTENTS AND REASONS	日期 DATE OF APPROVAL	擔當 DRAWN
1	新制 NEW RELEASE	2023.11.20	Renjie Xiao



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規格書名稱/Specifications :P4POT48CH

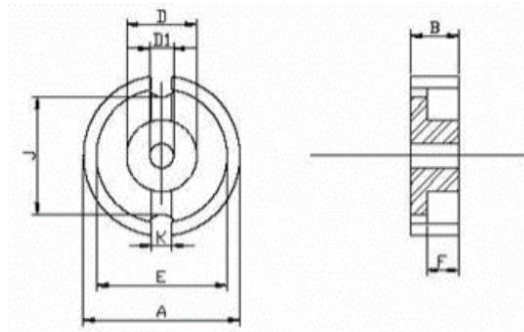
客戶料號/Customer P/N :

一、形狀、尺寸、材質/Shape, dimensions & material :

(1)形狀、尺寸：如下圖所示(單位：mm)Shape & dimensions :

(2)材質Material : P4

圖例/Drawing :



尺寸規格/Dimensions :

A :	47.8±0.90	Ae:	423.00mm ²
B :	15.6±0.30	Le:	123.65mm
D :	19.9±0.50	Ve:	53167.16mm ³
D1 :	7.6±0.30		
E :	40.4±0.90		
F :	10.7±0.40		
J :	33.8±0.50		
K :	4.3±0.50		

二、電磁特性規格 Electrical Characteristics :

材質 Material	初導磁率 μ_i Initial Permeability
P4	2500±25%

測試條件 Test Condition

測試項目 Item	單位 Units	測試條件 Test Condition	測試溫度 Temperature	規格 Spec	測試儀器 Equipment	測試線包 Test coil
AL	nH/N2	10KHz,50mV	25°C±3°C	10000±25%	HP4284A	0.25mm/10Ts

量測手法（選擇項目為” ■ “）Test method(” ■ “ means Yes) :

☒ 包麥拉帶2.5圈Wrap 2.5 layers of tape☐ 客戶測試夾子Test with clip☐ 至少對磨三次以上測試Abrad matching surface each other 3 times before testing the inductance☐ 平面配GAP測試Test by nogap core and gapped core☐ 雙GAP測試Test by pair of gapped cores☐ GAP產品放置於引線端測試Place the gapped core at the test side and close to the bobbin before testing☐ GAP產品放置於非引線端測試Place the nogap core at the test side and close to the bobbin before testing

注意事項: Remarks



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Sample Inspection Report
樣品檢驗報告



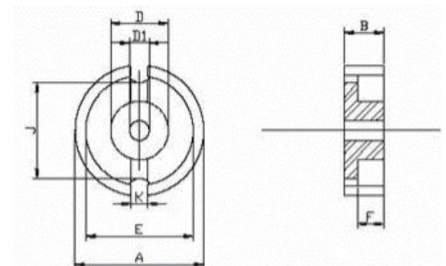
Part Number品名: P4POT48CH
Quantity數量: 10PA
Customer P/N客戶料號
☐K.Y ☐G.Z ☒K.S (MARK ☒)

Customer客戶: Platan
Date日期: 2023.11.20

MEASUREMENT(量測數據):

Item(項目):	A	B	D	D1	E	F	J	K	AL
Target 中值:	47.80	15.60	19.90	7.60	40.40	10.70	33.80	4.30	10000
Tolerance 公差:	±0.90	±0.30	±0.50	±0.30	0.90	±0.40	±0.50	±0.50	±25%
Upper Spec. 上限:	48.70	15.90	20.40	7.90	41.30	11.10	34.30	4.80	12500
Lower Spec. 下限:	46.90	15.30	19.40	7.30	39.50	10.30	33.30	3.80	7500
1	47.56	15.57	19.80	7.46	40.08	10.72	33.73	4.43	10522
2	47.54	15.58	19.78	7.48	40.09	10.70	33.80	4.40	10432
3	47.62	15.59	19.74	7.48	40.17	10.73	33.77	4.37	10322
4	47.52	15.57	19.74	7.44	40.05	10.72	33.78	4.42	11134
5	47.57	15.59	19.75	7.48	40.02	10.71	33.81	4.38	10927
6	47.60	15.57	19.74	7.45	40.03	10.73	33.86	4.39	10433
7	47.62	15.59	19.78	7.43	40.12	10.70	33.80	4.44	10116
8	47.56	15.59	19.75	7.50	40.00	10.68	33.83	4.53	10554
9	47.58	15.57	19.76	7.46	40.08	10.71	33.76	4.45	10873
10	47.55	15.56	19.80	7.48	40.06	10.73	33.71	4.52	10223
Min. 最小值	47.52	15.56	19.74	7.43	40.00	10.68	33.71	4.37	10116
Max. 最大值	47.62	15.59	19.80	7.50	40.17	10.73	33.86	4.53	11134
Range R差	0.10	0.03	0.06	0.07	0.17	0.05	0.15	0.16	1018
Average 平均值	47.57	15.58	19.76	7.47	40.07	10.71	33.79	4.43	10554
Judge 判定	OK	OK	OK	OK	OK	OK	OK	OK	OK
TEST	Equip 儀器: 卡尺(callipers)/HP4284A			Cond 條件: 10kHz,50mV				Coil 線圈:0.25mm/10Ts	
CLAUSE	PPR No 流程單:			Temp 溫度: 25°C±3°C				Series No 序號:	

REMARK 備註:



Tested by 測試: [Renjie Xiao](#)

Checked by 審查: [Christina Lv](#)

Approved by 核准: [Julian Chen](#)



越峯電子材料股份有限公司
產品外觀標準(開放型)

1. 缺角・脫帽(chip, uncap)

(1) 功能面(mate surface)

尺寸 Core size(A)	單點最大面積 Max.size/point (mm ²)	缺角/脫帽總面積 (mm ²) total area(mm ²)
A ≤ 10	0.5	1
10 < A ≤ 20	1.5	3
20 < A ≤ 30	2.0	4
30 < A ≤ 50	3.0	6
A > 50	0.08*A	0.08*A*3

(2) 非功能面(other surface)

尺寸 Core size(A)	單點最大面積 Max.size/point (mm ²)	缺角/脫帽總面積 (mm ²) total area(mm ²)
A ≤ 10	1.0	3
10 < A ≤ 20	2.0	6
20 < A ≤ 30	2.5	7.5
30 < A ≤ 50	3.5	10.5
A > 50	0.1*A	0.1*A*3

註明：① 小於最大點面積的缺角/脫帽以總面積進行判定。The cumulative area of chip, uncap less than the total area is allowable.

② 單點面積 < 0.5 mm² 不作統計。The defect won't be counted which area less than 0.5mm².

2. 裂(crack)

參照國際電工標準:IEC-60424.This Specification is based on IEC—60424。

3. 結晶(crystallize):

尺寸 Core size(A)	凹槽面 bottom surface		其他面 other surface	
	單點最大面積 Max.size/point (mm ²)	總面積 total area (mm ²)	單點最大面積 Max.size/point (mm ²)	總面積 total area (mm ²)
A ≤ 10mm	2.0	4	1.5	3
10mm < A ≤ 20mm	3.0	6	2.5	5
20mm < A ≤ 30mm	4.0	8	3.5	7
30mm < A ≤ 50mm	5.0	10	3.5	7
A > 50mm	0.25*A	0.25*A*2	0.2*A	0.2*A*2

註明：① 小於最大點面積的結晶點數以總面積進行判定。The cumulative area of chip, uncap less than the total area is allowable.

② 單點面積 < 1.0 mm² 不作統計。The defect won't be counted which area less than 1.0mm².

4. 粘模 (sticking) :

(1) 面積: ≤ 1/4 所在面面積. area: less than the 1/4 of respective surface.

(2) 深度: ≤ 0.2mm. Depth: ≤ 0.2mm

5. 毛邊 (ragged edge) :

(1) 高度: 不超過該尺寸面為判定基準. Height: It is not permitted exceed the respective surface dimension.

(2) 長度: ≤ 1/4 發生面的周長. Length: It is permitted up to 1/4 of surface perimeter.

6. 劃痕

(1) 刮傷可接受。Scrapes are allowed on surface.

(2) 深度: ≤ 0.15mm

備注：

1. 以上標準之制定參照國際電工標準：IEC-60424。This Specification is based on IEC—60424。

2. 以上標準未詳盡之處仍以IEC電工標準為參照依據。The other details that not be mentioned in this document are referred to IEC—60424 too.

3. 抽樣計劃採用 MIL-STD-105E表(II)次水準, 單次抽樣計劃AQL=1.0

The sampling is according to MIL-STD-105E, verification level II is used and AQL=1.0.



	Symbol	Unit	Measuring Conditions			Low Loss Material
			Freq.	Flux den.	Temp.	
Initial Permeability	μ_i		$\leq 10\text{kHz}$	0.25mT	25°C	2500 $\pm$ 25%
Amplitude Permeability	μ_a		25kHz	200mT	25°C	> 4500
					100°C	> 4500
Power Loss	Pv	KW/m ³	25kHz	200mT	25°C	105
					100°C	55
			100kHz	200mT	25°C	700
					100°C	450
			300kHz	100mT	25°C	660
					100°C	430
			500kHz	50mT	25°C	380
					100°C	330
Saturation Flux Density	Bms	mT	10kHz	H = 1200A/m	25°C	480
					100°C	380
Remanence	Brms	mT	10kHz	H = 1200A/m	25°C	100
					100°C	70
Coercivity	Hc	A/m	10kHz	H = 1200A/m	25°C	10
					100°C	6
Hysteresis Material Constant	η_B	10 ⁻⁶ /mT	10kHz	1.5-3.0mT	25°C	< 1.2
Disaccommodation Factor	Df	10 ⁻⁶	10kHz	< 0.25 mT	25°C	< 2
Curie Temperature	Tc	°C				220
Resistivity	ρ	Ωm				5.50
Density	d	g/cm ³				4.80

Note: Material characteristics are typical for a toroid core.

Product specification will differ from these data due to the influence of geometry and size.

