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SPECIFICATION FOR APPROVAL

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Approved by	Checked I	oy Drav	
Customer's Sig	gnature		
DESCRIPTION.	SMD PC	OWER INDUCT	OR
DRAWN NO.			
PART NO.	CKPM302	OBS	Series
DATE	15/Aug/2025	REVISION NO.	A
CUSTOMER'S P/	N		1
CUSTOMER			



广东今凯电子科技有限公司

GUANG DONG CHK ELECTRONIC TECH Co., Ltd

广东省佛山市顺德区北滘万洋科创园二区3栋

RoHS

Building 3, District 2, Beijiao Wanyang Science and Technology Innovation Park, Shunde District, Foshan City, Guangdong Province

www.gzchk.com



广东今凯电子科技有限公司

GUANG DONG CHK ELECTRONIC TECH Co., Ltd ECN HISTORY LIST

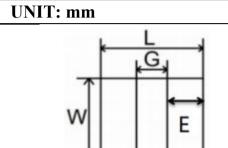
REV	DATE	DESCRIPTION	CHECK	APPROVED
A	2025/8/15	新规作成	林峙儒	黄大燕

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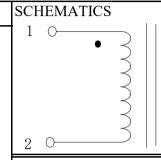
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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0			
PART NO.	CKPM3020BS	DATE	2025/8/15			

1.SHAPE & DIMENSION







Recommended land pattern



MARKING COLOR

NA

L	G	W	E	T	A	В	C
3.0	0.9	3.0	1	2	3	0.8	3
±0.1	±0.2	±0.1	±0.2	Max	Тур.	Тур.	Тур.

PART NUMBERING SYSTEM

CK PM 3020

B S

2R2 M C

1 2

3

4 5

6 7 8

- 1 CHK PRODUCTION (今凯制造)
- 2 PRODUCT CATEGORY (产品种类)
- 3 DIMENSIONS (尺寸规格)
- 4 COATING COLOR (外观颜色) B- Black G-Gray
- 5 SIZE TOLERANCE(尺寸公差) S-±0.2mm D-±0.1mm
- 6 INDUCTANCE (电感量)
- 7 TOLERANCE (公差) K:±10% M:±20% N:±25% Y:±30%
- 8 PACKAGING (包装方式) C-编带盘装 B-盒装

APPROVED BY	CHECKED BY	DRAFT BY
黄大燕	梁智坤	林峙儒

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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKPM3020BS	DATE	2025/8/15

2.SERIES SPECIFICATION

◆ CKPM3020BS Series Specification:

Part Number	Inductance	Test Freq		CR Ω)	Curi	ration rent A)	Cur	Rise rent A)
	(µ H)	(Hz)	Тур	Max	Тур	Max	Тур	Max
CKPM3020BS-R15MC	0.15	1MHz/1V	4.0	5.0	18.0	17.0	13.0	12.0
CKPM3020BS-R33MC	0.33	1MHz/1V	7.5	9.0	17.0	15.0	10.0	9.0
CKPM3020BS-R50MC	0.50	1MHz/1V	9.0	12.0	15.0	13.0	9.0	8.0
CKPM3020BS-R68MC	0.68	1MHz/1V	13.0	16.0	13.0	11.0	8.5	7.8
CKPM3020BS-1R0MC	1.00	1MHz/1V	14.0	20.0	8.0	7.3	6.5	6.0
CKPM3020BS-1R5MC	1.50	1MHz/1V	19.0	25.0	7.0	6.5	6.3	5.8
CKPM3020BS-2R2MC	2.20	1MHz/1V	37.0	45.0	6.0	5.5	4.7	4.3
CKPM3020BS-3R3MC	3.30	1MHz/1V	52.0	63.0	5.9	5.4	4.5	4.0
CKPM3020BS-4R7MC	4.70	1MHz/1V	60.0	73.0	4.8	4.0	4.2	3.8
CKPM3020BS-6R8MC	68.00	1MHz/1V	107.0	135.0	4.5	3.8	3.2	3.0
CKPM3020BS-100MC	10.00	1MHz/1V	135.0	160.0	3.8	3.3	2.5	2.2
CKPM3020BS-150MC	15.00	1MHz/1V	235.0	260.0	2.6	2.2	1.8	1.5

◆TEST CONDITION

ITEM	TEST CONDITION	TEST INSTRUMENTS
L		Microtest 6377
Isat	1MHz/1V	TH1773+Microtest 6377
Irms		THT//5+Wilciotest 05//
DCR	25±5℃	TH2512B

*The operating temperature is $25\,^{\circ}\!\!\mathrm{C}$

*Isat: For Inductance drop 30% from its value without current

*Irms: The value of D.C current when the temperature rise is $\triangle T \le 40$ °C. (Ta=25°C)

*For CKPM3020BS size inductors, absolute maximum voltage: DC 25 V.

※此物料仅用于消费电子领域,若用于车载,航天,军事领域引起的一切品质和责任问题,我司既不承担

APPROVED BY	CHECKED BY	DRAWN BY
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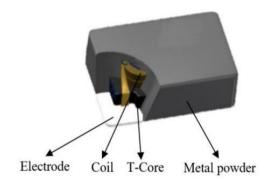
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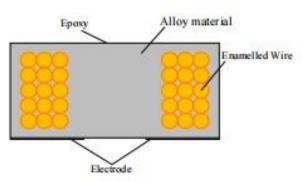
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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKPM3020BS	DATE	2025/8/15

3.MATERIAL LIST & GENERAL SPECIFICATION

材料名称	型号及规格	环保要求	备注
ITEM	Materials	EN.QU	Note
本体 Body	合金材料 Alloy Material	RoHS	
线圈 Winding	漆包线 Enamelled Wire	RoHS	
涂层 Shield	环氧树脂 Epoxy	RoHS	
	底层—铜层 Base Plating—Cu	RoHS	
电极 Electrode	镀层—镍层 Base Plating—Ni	RoHS	
	镀层—锡层 Base Plating—Sn	RoHS	

GENERAL SPECIFICATION				
Electrical specifications:	at 20~25°C			
Operation Temperature:	-40~+125℃			
Storage Temperature:	-40~+125℃			





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CUSTOMER	0	REVISION NO.	A	
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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0	
PART NO.	CKPM3020BS	DATE	2025/8/15	

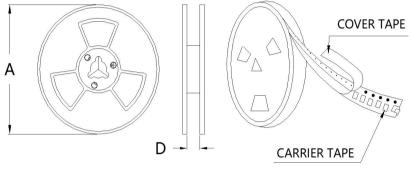
4.PACKAGING(unit: mm)



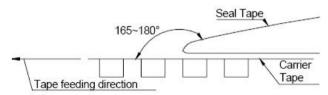
2.包装尺寸



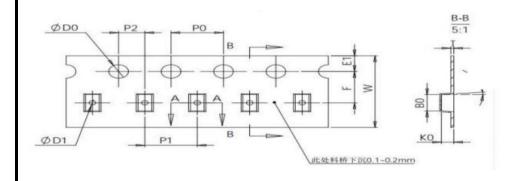


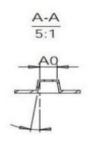


	13" 盘	7" 盘	
Α	Ф330±2.0	Ф178±2.0	
D	8.4		



Peel-off strength:10~100gf. Peel-off angle:165°-180° Peel-off speed:300mm/min.





Item	W	A0	В0	Р	Т	E	F	D0	D1	K0	Р0	P1	P2
DIM(mm)	12.0 ±0.3	3.4 ±0.1	3.45 ±0.1	8.0 ±0.1	0.3	1.75	5.5	1.5	1.5	2.2 ±0.1	4	8	2

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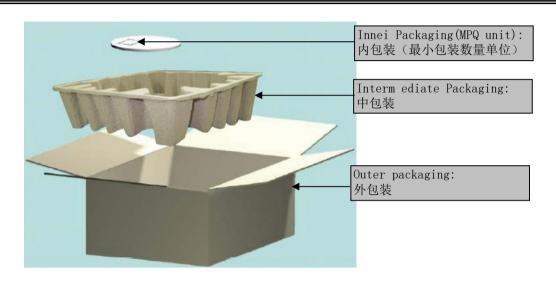
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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKPM3020BS	DATE	2025/8/15

5. CARTON



1.1 外箱: 40*40*17 cm 一纸托装一箱

1.2 內箱: CAG002(装7寸卷盘TRAY盘) 一箱装40卷制品

1.3 外箱材質: A三A 1.4 內箱材質: A=A

1.5 每5卷制品用一只静电袋包裝

1.6 每一静电袋内放一只袋干燥剂

1.7 每一卷上面依标签样式的要求贴上标签明细

1.8 出货内外箱贴上该箱内实际内容明细

卷轴包装数量

每卷 **3000** PCS

外箱包装数量

每箱 40 卷,共 120000 PCS

储存条件及期限: 温度: 20-25℃ 湿度: ≦70% 时间: 六个月

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DESCRIPTION.	SMD POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKPM3020BS	DATE	2025/8/15

6. RELIABILITY TEST

	Test Items	Test Conditions	Criteria
1	Low temperature storage	Placed at -40℃ for 500 hours, then measured at room ambient temperature after placing 24hours	Inductance shall be within ±10% of the initial value.
2	High temperature storage	Placed at +125 [°] C for 500 hours, then measured at room ambient temperature after placing 24 hours	Inductance shall be within ±10% of the initial value.
3	Thermal shock	Condition for 1 cycle: -40℃,30min.~+125℃,30min Number of cycles:5	Inductance shall be within ±10% of the initial value.
4	Humidity resistance	Placed at 90 to 95%RH,+50℃ for 500 hours, then measured at room ambient temperature after placing 24 hours.	Inductance shall be within ±10% of the initial value. Insulation resistance > 100ΜΩ at DC
5	Drop	Drop specimen three times on concrete floor from a height of 1 meter which mounted on test board	Inductance shall be within ±10% of the initial value.
6	Vibration	Frequency::10~55~10Hz	Inductance shall be within
		Amplitude:1.5mm or 10G	±10% of the initial value.
		Sweep time: 1 oct/min	
		Test Directions: X,Y,Z	
		Test Time: 2 hours each direction	
7	Terminal strength	Add static load 4.9N(500gf) to inductor through hole of test board for 10±2 sec.	No detachment of terminal pin and no breakage of wire
8	Soldering heat resistance	Dip Inductor's terminal in solder bath of following conditions:	Inductance shall be within ±10% of the initial value. Apperance: No damage
		1) 260±5℃, 10±1 sec,	, tpporanios. No damago
		2) 350±10℃, 3.5±0.5 sec	

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GUANG DONG CHK ELECTRONIC TECH Co., Ltd

Gern (G D G) (G CHIN EEE C TRO) (TO TE CHI COM EVA			
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PART NO.	CKPM3020BS	DATE	2025/8/15

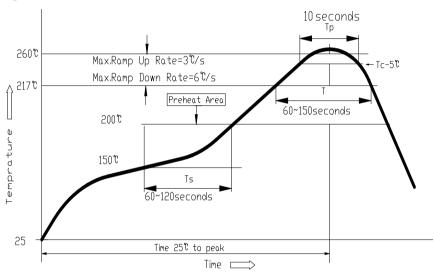
7. SOLDERING CONDITIONS

Applicable soldering process to the products is refl.

9.1 Soldering Materials

- (1) Solder:Sn-3.0Ag-0.5Cu
- (2) Flux:Use rosin-based flux,but not strongly acidic flux (with xhlorine exceeding 0.2wt%).Do not use water-soluble flux.

9.2 Reflow Soldering Profile



9.3 Soldering Iron

Reworking with electric solding iron must preheating at 150° C for 1 minute is required, and do not directly touch the core with the tip of the soldering iron. The reworking soldering conditions are as follows.

- ①Temperature of soldering iron tip:350°C;
- ② Soldering iron power output: ≤30W;
- ③ Diameter of soldering iron end:≤1.0mm;
- **④Soldering time:** ≤3 s



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