承　　认　　书

SPECIFICATION FOR APPROVAL

CUSTOMER			
CUSTOMER'S P/N			
DATE	03/Apr/2024	REVISION NO.	A
PART NO.	CKRH Series		
DRAWN NO.			
DESCRIPTION.	SHIELDED POWER INDUCTOR		
Customer's Signature			

Approved by	Checked by	Drawn by
黄大燕	黄大燕	梁智坤
03/Apr/2024	03/Apr/2024	03/Apr/2024

广 州 市 今 凯 电 子 有 限 公 司

GUANG ZHOU CHK ELECTRONIC Co., Ltd

广东省广州市番禺区石基镇旧水坑开发路4号一栋2楼

2nd floor, Building 4, JiuShuiKeng Development Road, Shiji Town, Panyu District, Guangzhou, Guangdong Province

TEL：(020)34567411　　FAX：(020)39946195

广 州 市 今 凯 电 子 有 限 公 司

GUANG ZHOU CHK ELECTRONIC Co., Ltd

ECN HISTORY LIST

REV	DATE	DESCRIPTION	CHECK	APPROVED
A	2024/4/3	新规作成	梁智坤	黄大燕

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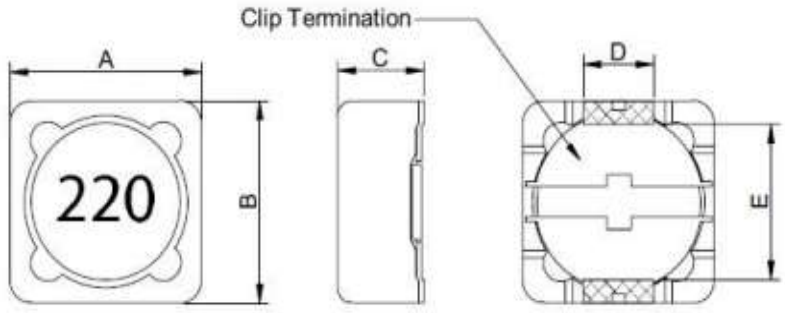
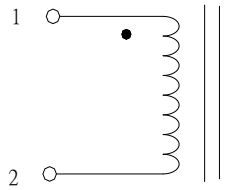
CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P 1/9
DESCRIPTION.	SHIELDED POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKRH Series	DATE	2024/4/3

1.SHAPE & DIMENSION

UNIT: mm



SCHEMATICS



MARKING COLOR

BLACK

PART NO.	A	B	C	D	E	
	±0.3	±0.3	MAX	±0.2	±0.2	
CKRH73	7.3	7.3	3.5	1.8	5.0	
CKRH74	7.3	7.3	4.5	1.8	5.0	
CKRH125	12.0	12.0	6.0	5.0	7.6	
CKRH127	12.0	12.0	8.0	5.0	7.6	

PART NUMBERING SYSTEM

CK	RH	74	-	220	M	C
1	2	3		4	5	6

1 CHK PRODUCTION (今凯制造)

2 PRODUCT CATEGORY （产品种类） RH屏蔽罩功率电感

3 DIMENSIONS （尺寸规格）

4 INDUCTANCE （电感量）

5 TOLERANCE （公差） **K:±10% M:±20% N:±25% Y:±30%**

6 PACKAGING （包装方式）

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CUSTOMER'S P/N	0	PAGE	P 2/9
DESCRIPTION.	SHIELDED POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKRH Series	DATE	2024/4/3

2.SERIES SPECIFICATION

◆CKRH73 Series Specification:

Part Number	Inductance (μH)	Teat Freq (KHz/V)	DCR(Ω) Max	IDC(A) Max
CKRH73-1R0YC	1.0	100/0.25	0.016	7.97
CKRH73-1R5YC	1.5	100/0.25	0.023	5.50
CKRH73-2R2YC	2.2	100/0.25	0.027	4.50
CKRH73-3R3YC	3.3	100/0.25	0.031	4.00
CKRH73-4R7YC	4.7	100/0.25	0.048	3.50
CKRH73-5R6YC	5.6	100/0.25	0.056	3.00
CKRH73-6R8YC	6.8	100/0.25	0.062	2.50
CKRH73-100YC	10.0	100/0.25	0.072	1.68
CKRH73-150MC	15.0	100/0.25	0.130	1.33
CKRH73-180MC	18.0	100/0.25	0.140	1.20
CKRH73-220MC	22.0	100/0.25	0.190	1.07
CKRH73-330MC	33.0	100/0.25	0.240	0.91
CKRH73-390MC	39.0	100/0.25	0.320	0.77
CKRH73-470MC	47.0	100/0.25	0.360	0.76
CKRH73-680MC	68.0	100/0.25	0.520	0.61
CKRH73-101MC	100.0	100/0.25	0.790	0.50
CKRH73-151MC	150	100/0.25	1.270	0.43
CKRH73-181MC	180	100/0.25	1.450	0.39
CKRH73-221MC	220	100/0.25	1.650	0.35
CKRH73-331MC	330	100/0.25	2.620	0.28
CKRH73-391MC	390	100/0.25	2.940	0.26
CKRH73-471MC	470	100/0.25	4.180	0.24
CKRH73-561MC	560	100/0.25	4.670	0.22
CKRH73-681MC	680	100/0.25	5.730	0.19
CKRH73-821MC	820	100/0.25	6.540	0.18
CKRH73-102MC	1000	100/0.25	9.440	0.16

*The operating temperature is 25℃
*Isat: For Inductance drop 30% from its value without current
*Irms: The value of D.C current when the temperature rise is △T≦40℃.(Ta=25℃)
※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※

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CUSTOMER'S P/N	0	PAGE	P 3/9
DESCRIPTION.	SHIELDED POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKRH Series	DATE	2024/4/3

2.SERIES SPECIFICATION

◆CKRH74 Series Specification:

Part Number	Inductance (μH)	Teat Freq (KHz/V)	DCR(Ω) Max	IDC(A) Max
CKRH74-1R0YC	1.0	100/0.25	0.015	9.00
CKRH74-1R5YC	1.5	100/0.25	0.018	7.00
CKRH74-2R2YC	2.2	100/0.25	0.028	6.00
CKRH74-3R3YC	3.3	100/0.25	0.032	4.80
CKRH74-3R9YC	3.9	100/0.25	0.035	4.40
CKRH74-4R7YC	4.7	100/0.25	0.038	4.00
CKRH74-5R6YC	5.6	100/0.25	0.040	3.50
CKRH74-6R8YC	6.8	100/0.25	0.045	3.00
CKRH74-100YC	10.0	100/0.25	0.049	1.84
CKRH74-120MC	12.0	100/0.25	0.058	1.71
CKRH74-150MC	15.0	100/0.25	0.081	1.47
CKRH74-180MC	18.0	100/0.25	0.091	1.31
CKRH74-220MC	22.0	100/0.25	0.110	1.23
CKRH74-270MC	27.0	100/0.25	0.150	1.12
CKRH74-330MC	33.0	100/0.25	0.170	0.96
CKRH74-390MC	39.0	100/0.25	0.230	0.91
CKRH74-470MC	47.0	100/0.25	0.260	0.88
CKRH74-560MC	56.0	100/0.25	0.350	0.80
CKRH74-680MC	68.0	100/0.25	0.380	0.70
CKRH74-820MC	82.0	100/0.25	0.430	0.61
CKRH74-101MC	100.0	100/0.25	0.610	0.60
CKRH74-121MC	120.0	100/0.25	0.660	0.52
CKRH74-151MC	150	100/0.25	0.880	0.46
CKRH74-181MC	180	100/0.25	0.980	0.42
CKRH74-221MC	220	100/0.25	1.170	0.36
CKRH74-271MC	270	100/0.25	1.640	0.34
CKRH74-331MC	330	100/0.25	1.860	0.32
CKRH74-391MC	390	100/0.25	2.850	0.29
CKRH74-471MC	470	100/0.25	3.010	0.26
CKRH74-561MC	560	100/0.25	3.620	0.23
CKRH74-681MC	680	100/0.25	4.630	0.22
CKRH74-821MC	820	100/0.25	5.200	0.20
CKRH74-102MC	1000	100/0.25	6.000	0.18

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黄大燕	黄大燕	梁智坤

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CUSTOMER'S P/N	0	PAGE	P 4/9
DESCRIPTION.	SHIELDED POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKRH Series	DATE	2024/4/3

2.SERIES SPECIFICATION

◆CKRH125 Series Specification:

Part Number	Inductance (μH)	Teat Freq (KHz/V)	DCR(Ω) Max	IDC(A) Max
CKRH125-1R3YC	1.3	100/0.25	0.012	8.00
CKRH125-2R1YC	2.1	100/0.25	0.014	7.00
CKRH125-3R1YC	3.1	100/0.25	0.017	6.00
CKRH125-4R4YC	4.4	100/0.25	0.020	5.00
CKRH125-5R8YC	5.8	100/0.25	0.021	4.40
CKRH125-7R5YC	7.5	100/0.25	0.024	4.20
CKRH125-100YC	10.0	100/0.25	0.025	4.00
CKRH125-120MC	12.0	100/0.25	0.027	3.50
CKRH125-150MC	15.0	100/0.25	0.030	3.30
CKRH125-180MC	18.0	100/0.25	0.034	3.00
CKRH125-220MC	22.0	100/0.25	0.036	2.80
CKRH125-270MC	27.0	100/0.25	0.051	2.30
CKRH125-330MC	33.0	100/0.25	0.057	2.10
CKRH125-390MC	39.0	100/0.25	0.068	2.00
CKRH125-470MC	47.0	100/0.25	0.075	1.80
CKRH125-560MC	56.0	100/0.25	0.110	1.70
CKRH125-680MC	68.0	100/0.25	0.120	1.50
CKRH125-820MC	82.0	100/0.25	0.140	1.40
CKRH125-101MC	100.0	100/0.25	0.160	1.30
CKRH125-121MC	120.0	100/0.25	0.170	1.10
CKRH125-151MC	150.0	100/0.25	0.230	1.00
CKRH125-181MC	180.0	100/0.25	0.290	0.90
CKRH125-221MC	220	100/0.25	0.400	0.80
CKRH125-271MC	270	100/0.25	0.460	0.75
CKRH125-331MC	330	100/0.25	0.510	0.68
CKRH125-391MC	390	100/0.25	0.690	0.65
CKRH125-471MC	470	100/0.25	0.770	0.58
CKRH125-561MC	560	100/0.25	0.860	0.54
CKRH125-681MC	680	100/0.25	1.200	0.48
CKRH125-821MC	820	100/0.25	1.340	0.43
CKRH125-102MC	1000	100/0.25	1.530	0.40

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CUSTOMER'S P/N	0	PAGE	P 5/9
DESCRIPTION.	SHIELDED POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKRH Series	DATE	2024/4/3

2.SERIES SPECIFICATION

◆CKRH127 Series Specification:

Part Number	Inductance (μH)	Teat Freq (KHz/V)	DCR(Ω) Max	IDC(A) Max
CKRH127-1R2YC	1.2	100/0.25	0.007	9.80
CKRH127-2R4YC	2.4	100/0.25	0.012	8.00
CKRH127-3R5YC	3.5	100/0.25	0.014	7.50
CKRH127-4R7YC	4.7	100/0.25	0.016	6.80
CKRH127-6R1YC	6.1	100/0.25	0.018	6.60
CKRH127-7R6YC	7.6	100/0.25	0.020	5.90
CKRH127-100YC	10.0	100/0.25	0.022	5.40
CKRH127-120MC	12.0	100/0.25	0.024	4.90
CKRH127-150MC	15.0	100/0.25	0.030	4.50
CKRH127-180MC	18.0	100/0.25	0.039	3.90
CKRH127-220MC	22.0	100/0.25	0.043	3.60
CKRH127-270MC	27.0	100/0.25	0.046	3.40
CKRH127-330MC	33.0	100/0.25	0.065	3.00
CKRH127-390MC	39.0	100/0.25	0.073	2.75
CKRH127-470MC	47.0	100/0.25	0.100	2.50
CKRH127-560MC	56.0	100/0.25	0.110	2.35
CKRH127-680MC	68.0	100/0.25	0.140	2.10
CKRH127-820MC	82.0	100/0.25	0.160	1.95
CKRH127-101MC	100.0	100/0.25	0.220	1.70
CKRH127-121MC	120.0	100/0.25	0.250	1.60
CKRH127-151MC	150.0	100/0.25	0.280	1.42
CKRH127-181MC	180.0	100/0.25	0.350	1.30
CKRH127-221MC	220	100/0.25	0.390	1.16
CKRH127-271MC	270	100/0.25	0.560	1.06
CKRH127-331MC	330	100/0.25	0.640	0.95
CKRH127-391MC	390	100/0.25	0.700	0.88
CKRH127-471MC	470	100/0.25	0.980	0.79
CKRH127-561MC	560	100/0.25	1.070	0.73
CKRH127-681MC	680	100/0.25	1.460	0.67
CKRH127-821MC	820	100/0.25	1.640	0.60
CKRH127-102MC	1000	100/0.25	1.820	0.55

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黄大燕	黄大燕	梁智坤

3. GENERAL SPECIFICATION

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

4.PACKAGING

Size EIA	CKRH73	CKRH74	CKRH125
Standard Packing Quantity (pcs/reel)	1,000	1,000	500
	CKRH127		
	500		

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℃ 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 > 100MΩ 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 Amplitude:1.5mm or 10G Sweep time: 1 oct/min Test Directions: X,Y,Z Test Time: 2 hours each direction	Inductance shall be within ± 10% of the initial value.
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: 1) 260±5℃, 10±1 sec, 2) 350±10℃, 3.5±0.5 sec	Inductance shall be within ± 10% of the initial value. Apperance: No damage

CUSTOMER	0	REVISION NO.	A
CUSTOMER'S P/N	0	PAGE	P9/9
DESCRIPTION.	SHIELDED POWER INDUCTOR	DRAWN NO.	0
PART NO.	CKRH Series	DATE	2024/4/3

7. SOLDERING CONDITIONS

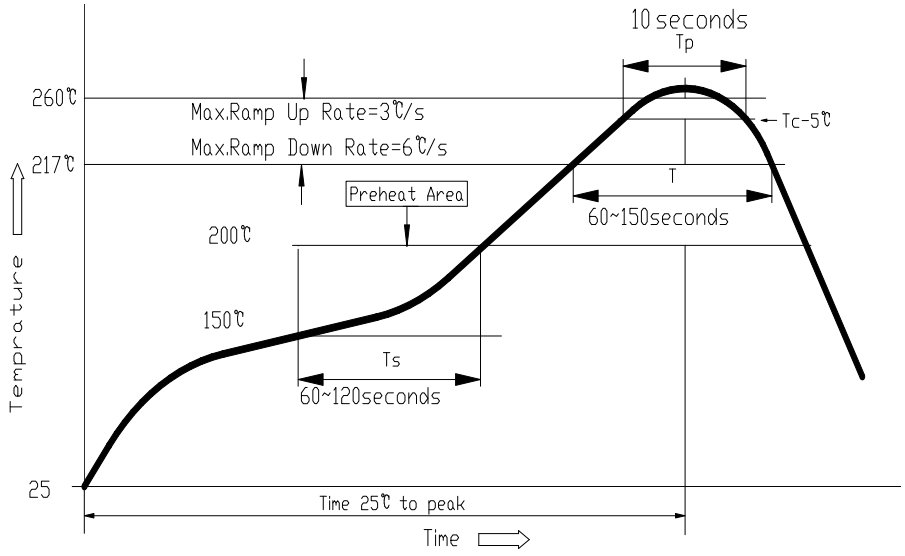
Applicable soldering process to the products is refl.

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 flu

9.2 Reflow Soldering Profile



9.3 Soldering Iron

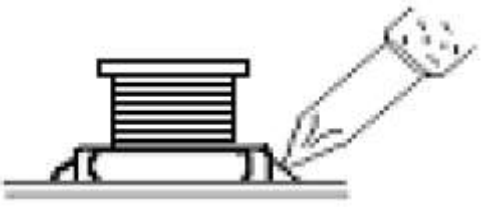
Reworking with electric solding iron must preheating at 150℃ for 1 minute is required,and do not directly touch the core with the tip of the soldering iron.The reworking soldering conditions are as follows.

①Temperature of soldering iron tip:350℃；

② Soldering iron power output:≤30W；

③ Diameter of soldering iron end:≤1.0mm；

④Soldering time:＜3 s



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黄大燕	黄大燕	梁智坤