

MESSRS:

ORMIX

SPEC NO. H500-0226

DATE: 2007/04/19

LEAD FREE

《NEW/AMENDED》

APPROVAL SPECIFICATION

DESCRIPTION: RADIAL TYPE CHOKE COIL

MODEL (PART NO.) CW68NP-101K

CUSTOMER'S PART NO.

AMENDED




CUSTOMER'S PART NO.

【FOR APPROVAL】

DATE: _____

* THIS SPECIFICATION IS CONSTITUTED WITH _____ PAGES INCLUDING ATTACHMENTS.

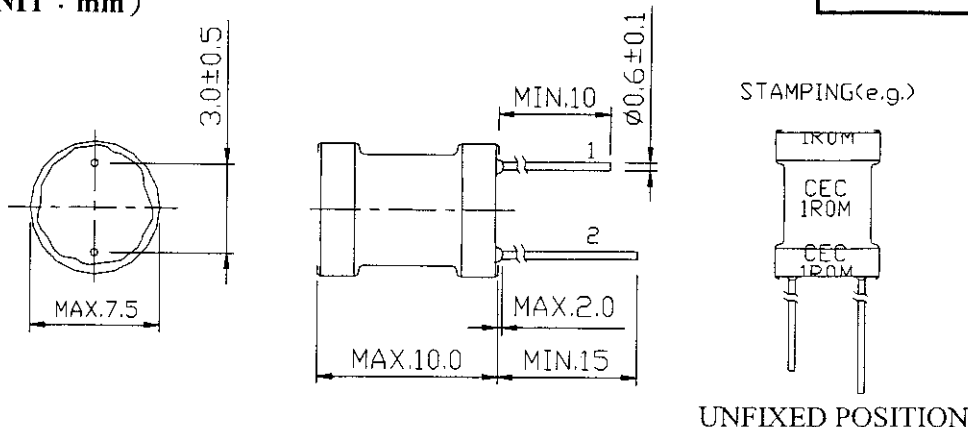
高雅線圈製品有限公司
COILS ELECTRONIC CO., LTD.

Approved by	Checked by	In charge
		

* SPECIFICATION *

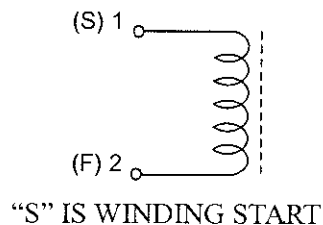
TYPE CW68NP

1. DIMENSION (UNIT : mm)

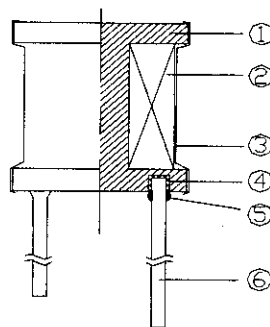


- * THE LENGTH OF THE TERMINAL PINS DOES NOT INCLUDE SOLDER TIP.
- * PIN PITCH TO BE MEASURED FROM THE ROOT OF TERMINAL.

2. CIRCUIT



3. CONSTRUCTION



4. MATERIAL LIST

No.	PARTS	MATERIAL	MANUFACTURER	COUNTRY OF ORIGIN	UL No.	UL FLAME CLASS	TEMP. CLASS
①	CORE	FERRITE CORE EL8H OR EQUIVALENT	TONICHI FERRITE PRODUCTS CO., LTD.	CHINA	NA	NA	NA
②	WIRE	POLYURETHANE ENAMELLED COPPER WIRE OR EQUIVALENT	PACIFIC-THAI ELECTRIC WIRE & CABLE CO., LTD.	THAILAND	E142108	NA	130°C
			JUNG SHING WIRE CO., LTD.	CHINA	E174837	NA	130°C
③	TUBE	HEAT SHRINKABLE UL TUBING OR EQUIVALENT	DONGGUAN SANLIAN PLASTIC CO., LTD.	CHINA	E209436	NA	125°C
④	ADHESIVE	EPOXY RESIN (EB-360) OR EQUIVALENT	JIANG SU CHANG FENG CO., LTD.	CHINA	NA	NA	NA
⑤	SOLDER	Sn99.3-Cu0.7 OR EQUIVALENT	ALPHA METALS LTD.	CHINA HONG KONG	NA	NA	NA
⑥	LEAD PIN	TIN-PLATED COPPER WIRE OR EQUIVALENT	WELL FORE SPECIAL WIRE CORPORATION	CHINA	NA	NA	NA
	STAMP	INK (PVA103) OR EQUIVALENT	SUNBEAMS CHEMICALS LIMITED.	CHINA	NA	NA	NA

29th . May , 2004			PART No.:		-----
			Refer. To P. 4/5, 5/5		
APPROVAL	CHECK	DESIGN	REMARK		SPEC. No. 2/5
			<div style="border: 2px solid black; padding: 5px; display: inline-block;">H500-0226</div>		

5.GENERAL CHARACTERISTICS

* STANDARD TESTING CONDITIONS:

UNLESS OTHERWISE SPECIFIED, THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MEASUREMENTS AND TESTS ARE AS FOLLOWS: AMBIENT TEMPERATURE: 15°C TO 35°C. RELATIVE HUMIDITY : 25% TO 85%.

AIR PRESSURE : 86kPa TO 106kPa.

IF THERE IS ANY DOUBT ABOUT THE RESULTS, MEASUREMENT SHALL BE MADE WITHIN THE FOLLOWING

LIMITS: AMBIENT TEMPERATURE: 20°C±1°C. RELATIVE HUMIDITY : 63% TO 67%. AIR PRESSURE : 86kPa TO 106kPa.

No.	ITEMS	CONDITIONS	SPECIFICATION
1	OPERATION TEMPERATURE STORAGE TEMPERATURE		-25 ~ +85°C (INCLUDING COIL TEMPERATURE RISE) -40 ~ +85°C
2	LEAD TERMINAL STRENGTH	A STATIC PULLING FORCE OF 5N IN A DIRECTION PARALLEL TO THE LEAD TERMINALS FOR 60±5 SECONDS.	NO TERMINAL BREAKAGE OR LOOSENING
3	RESISTANCE TO SOLDERING HEAT TEST	FIX THE SAMPLES ON A 1.6mm THICKNESS PCB, THEN DIP THE SAMPLE LEADS INTO A SOLDERING BATH OF 260±5°C UP TO THE PCB FOR 5±1 SECONDS.	NO MECHANICAL BREAKAGE. DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±3.0% Q: WITHIN ±20%
4	SOLDERABILITY TEST	IMMERSE THE TERMINAL IN FLUX FOR 5 SECONDS. THEN DIP THE TERMINAL INTO A SOLDERING BATH OF 245±5°C FOR 2±0.5 SECONDS.	OVER 90% OF THE SURFACE BEING IMMERSSED SHALL BE COVERED WITH NEW SOLDER. UNIFORMLY.
5	VIBRATION TEST	AMPLITUDE:1.5mm P-P FREQUENCY:10~55~10Hz (1 MINUTE PER CYCLE) DURATION:2 HOURS IN EACH OF X.Y.Z AXIS (TOTAL 6 HOURS)	DEVIATION RELATIVE TO INITIAL VALUE:
6	SHOCK TEST	PEAK ACCELERATION: 981m/s ² DURATION OF PULSE:10ms SHOCK TIMES: 3 TIMES IN EACH OF X, Y, Z AXIS.(TOTAL 9 TIMES)	L: WITHIN ±1.0% Q: WITHIN ±20%
7	HUMIDITY TEST	TEMPERATURE: 40°C±2°C HUMIDITY: 90%~95% RH DURATION:96±4 HOURS.	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±3.0% Q: WITHIN ±20%

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TYPE CW68NP

6. ELECTRICAL CHARACTERISTICS

No.	PART No.	STAMP	INDUCTANCE (μ H) WITHIN	UNLOADED Q Min.	D.C.R. (Ω) Max.	RATED CURRENT (A)		S.R.F. Ref. (MHz)
						Max.		
						Idc 1	Idc 2	
01	CW68NP-1R0M	1R0M	1.0 \pm 20%	15	8.6m	6.2	7.3	188
02	CW68NP-1R2M	1R2M	1.2 \pm 20%		10.0m	5.2	6.6	172
03	CW68NP-1R5M	1R5M	1.5 \pm 20%		13.2m	4.8	5.7	145
04	CW68NP-2R2M	2R2M	2.2 \pm 20%		14.7m	4.1	5.7	115
05	CW68NP-2R7M	2R7M	2.7 \pm 20%		16.5m	3.8	5.0	98
06	CW68NP-3R3M	3R3M	3.3 \pm 20%		18.5m	3.5	4.9	78
07	CW68NP-3R9M	3R9M	3.9 \pm 20%		20.0m	3.2	4.5	60
08	CW68NP-4R7M	4R7M	4.7 \pm 20%		21.7m	2.9	4.0	47
09	CW68NP-5R6M	5R6M	5.6 \pm 20%		25.0m	2.5	3.7	32
10	CW68NP-6R8M	6R8M	6.8 \pm 20%		32.2m	2.3	3.2	30
11	CW68NP-8R2M	8R2M	8.2 \pm 20%		37.7m	2.1	3.0	26
12	CW68NP-100K	100K	10 \pm 10%	50	40.7m	2.0	2.9	25
13	CW68NP-120K	120K	12 \pm 10%		46.0m	1.7	2.6	23
14	CW68NP-150K	150K	15 \pm 10%		53.0m	1.6	2.5	20
15	CW68NP-180K	180K	18 \pm 10%	40	58.2m	1.4	2.4	18
16	CW68NP-220K	220K	22 \pm 10%		66.7m	1.3	2.2	17
17	CW68NP-270K	270K	27 \pm 10%		77.0m	1.2	2.1	15
18	CW68NP-330K	330K	33 \pm 10%		0.10	1.0	1.8	13
19	CW68NP-390K	390K	39 \pm 10%	35	0.11	0.96	1.6	12
20	CW68NP-470K	470K	47 \pm 10%		0.14	0.88	1.4	11
21	CW68NP-560K	560K	56 \pm 10%		0.16	0.80	1.3	9.6
22	CW68NP-680K	680K	68 \pm 10%	30	0.20	0.77	1.2	8.5
23	CW68NP-820K	820K	82 \pm 10%		0.23	0.70	1.1	7.7
24	CW68NP-101K	101K	100 \pm 10%	20	0.26	0.64	1.0	7.1
25	CW68NP-121K	121K	120 \pm 10%		0.30	0.58	0.95	6.6
26	CW68NP-151K	151K	150 \pm 10%		0.38	0.53	0.90	6.0
27	CW68NP-181K	181K	180 \pm 10%		0.48	0.48	0.80	5.4
28	CW68NP-221K	221K	220 \pm 10%		0.60	0.43	0.70	4.8
29	CW68NP-271K	271K	270 \pm 10%	25	0.76	0.39	0.65	4.0
30	CW68NP-331K	331K	330 \pm 10%		0.88	0.35	0.60	3.7

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ELECTRICAL CHARACTERISTICS

No.	PART No.	STAMP	INDUCTANCE (μ H) WITHIN	UNLOADED Q Min.	D.C.R. (Ω) Max.	RATED CURRENT Max. (A)		S.R.F. Ref. (MHz)
						Idc 1	Idc 2	
31	CW68NP-391K	391K	390 \pm 10%	25	1.1	0.33	0.50	3.4
32	CW68NP-471K	471K	470 \pm 10%	20	1.2	0.30	0.46	3.2
33	CW68NP-561K	561K	560 \pm 10%		1.4	0.27	0.43	3.0
34	CW68NP-681K	681K	680 \pm 10%		1.8	0.24	0.37	2.6
35	CW68NP-821K	821K	820 \pm 10%		2.0	0.22	0.33	2.3
36	CW68NP-102K	102K	1000 \pm 10%	55	2.52	0.20	0.32	2.1
37	CW68NP-122K	122K	1200 \pm 10%	65	3.0	0.18	0.28	1.9
38	CW68NP-152K	152K	1500 \pm 10%	60	3.6	0.17	0.26	1.7
39	CW68NP-182K	182K	1800 \pm 10%	65	4.5	0.15	0.22	1.6
40	CW68NP-222K	222K	2200 \pm 10%	60	6.0	0.14	0.21	1.5
41	CW68NP-272K	272K	2700 \pm 10%	65	6.5	0.12	0.20	1.3
42	CW68NP-332K	332K	3300 \pm 10%	70	8.4	0.11	0.18	1.2
43	CW68NP-392K	392K	3900 \pm 10%	90	11	0.10	0.15	1.1
44	CW68NP-472K	472K	4700 \pm 10%	80	13	95m	0.14	1.0
45	CW68NP-562K	562K	5600 \pm 10%		15	85m	0.13	0.87
46	CW68NP-682K	682K	6800 \pm 10%		17	80m	0.12	0.82
47	CW68NP-822K	822K	8200 \pm 10%	85	23	70m	0.10	0.77
48	CW68NP-103K	103K	10000 \pm 10%		30	60m	90m	0.60
49	CW68NP-123K	123K	12000 \pm 10%		33	55m	80m	0.57
50	CW68NP-153K	153K	15000 \pm 10%		39	50m	75m	0.53
51	CW68NP-183K	183K	18000 \pm 10%		53	45m	65m	0.47
52	CW68NP-223K	223K	22000 \pm 10%		61	40m	60m	0.44
53	CW68NP-273K	273K	27000 \pm 10%		82	35m	55m	0.36
54	CW68NP-333K	333K	33000 \pm 10%		93	30m	50m	0.33
55	CW68NP-393K	393K	39000 \pm 10%		105	25m	45m	0.32
56	CW68NP-473K	473K	47000 \pm 10%		120	20m	40m	0.30

* TESTING INSTRUMENT

INDUCTANCE: HP 4284A OR EQUIVALENT.

Q: HP 4285A OR EQUIVALENT.

D.C.R. : HP 34420A OR EQUIVALENT.

RATED CURRENT: HP 4284A, HP 42841A, HP E3632A, HP 34401A OR EQUIVALENT.

S.R.F. : HP 4395A OR EQUIVALENT.

* TESTING CONDITIONS OF INDUCTANCE: 1.0 μ H ~ 8.2 μ H at 100kHz/1V, 10 μ H ~ 47000 μ H at 1kHz/1V.

* TESTING CONDITIONS OF UNLOADED Q: 1.0 μ H ~ 8.2 μ H at 7.96MHz/1V, 10 μ H ~ 82 μ H at 2.52MHz/1V.

100 μ H ~ 820 μ H at 796kHz/1V, 1000 μ H ~ 8200 μ H at 252kHz/1V.

10000 μ H ~ 47000 μ H at 79.6kHz/1V.

* Idc 1: THE CURRENT WHEN THE INDUCTANCE DECREASES TO 90% OF INITIAL VALUE. (Ta= 25°C)

* Idc 2: THE CURRENT WHEN THE TEMPERATURE OF COIL IS INCREASED BY 40°C. (Ta= 25°C)

* THE RATED CURRENT INDICATES THE SMALLER ONE BETWEEN Idc 1 AND Idc 2.

7. PACKAGE

PACKAGE TO BE ACCORDING TO SPECIFICATIONS (TICK THE RELEVANT " ").

- | | | |
|--|------------------------------------|------------------------------------|
| <input checked="" type="checkbox"/> KB-PLT019 | <input type="checkbox"/> KB-PLT667 | <input type="checkbox"/> KB-PLT867 |
| <input type="checkbox"/> KB-PLT020 | <input type="checkbox"/> KB-PLT668 | <input type="checkbox"/> KB-PLT868 |
| <input checked="" type="checkbox"/> KB-OTH017 | <input type="checkbox"/> KB-OTH601 | <input type="checkbox"/> KB-OTH803 |
| <input type="checkbox"/> KB-OTH018 | <input type="checkbox"/> KB-OTH602 | <input type="checkbox"/> KB-OTH804 |
| <input type="checkbox"/> SPECIAL FOR CUSTOMER KB _____ | | |

REMARK

SPEC. No.

5/5

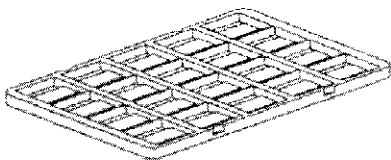
H500-0226

* PACKAGE SPECIFICATION *

APPLICABLE TYPE: CD88, CW88, CRCH683, CW77, CW76, CRCH688

Dimensions (Ref.) : mm

1. 200 Pcs/Unit



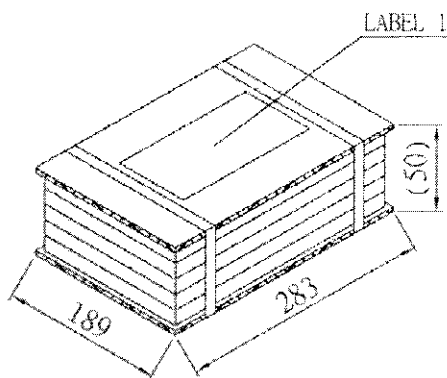
LABEL 1



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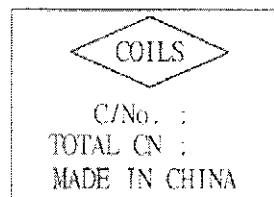
Customer	
Description	
S/O No.	
Customer Part No.	
Quantity	Pcs.
Lot No.	

2. 5 Units/Bundle Total 1,000 Pcs



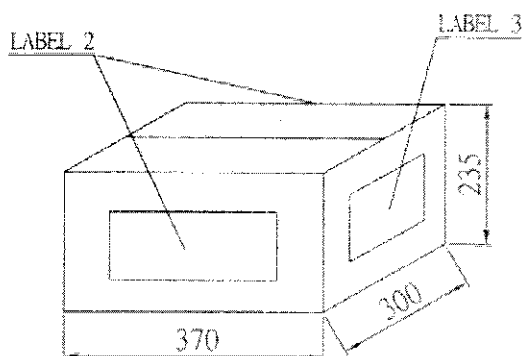
LABEL 2

* UNLESS OTHERWISE STATED (IN COIL SPEC.) THE LABEL 2 SHALL BE ACCORDING TO CEC STANDARD SHOWN BELOW.



3. Carton

7 Bundles/Carton Total 7,000 Pcs



LABEL 3

LOT NO.	
COILS P/N:	
P/O#:	
Cust. P/N:	
QTY:	
DATE:	

MADE: 7th. Jun. 2001			REVISION	PACKAGE SPEC.No. 1/1
APPROVAL	CHECK	DESIGN		KB-PLT019



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