

MESSRS:  
**INCOMP**  
**INTERNATIONAL LTD.**

SPEC NO. H500-0507

RoHS Compliant  
環保品

DATE: 2010/04/27

《NEW/AMENDED》

## APPROVAL SPECIFICATION

DESCRIPTION: RADIAL TYPE CHOKE COIL

MODEL (PART NO.) CW8A904717

CUSTOMER'S PART NO.

AMENDED




CUSTOMER'S PART NO.

【FOR APPROVAL】

DATE: \_\_\_\_\_

\* THIS SPECIFICATION IS CONSTITUTED WITH \_\_\_\_\_ PAGES INCLUDING ATTACHMENTS.

### COILS ELECTRONIC CO., LTD.

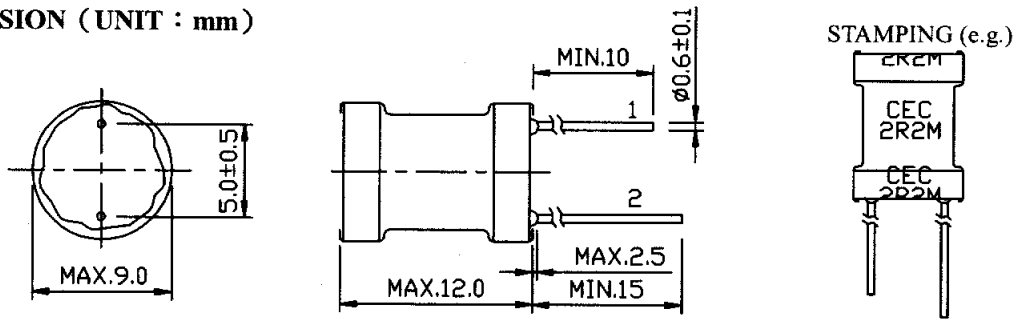
Approved by	Checked by	In charge
		

 COILS ELECTRONIC CO., LTD.

CUSTOMER: INCOMP INTERNATIONAL LTD.			AMENDMENT RECORD			
SYMBOL	DATE	PAGE	CONTENTS	DWN. BY	CHK. BY	APP. BY
△	2007/06/21	P. 2/5	CHANGED TUBE MANUFACTURER.	C.Z.Tan	Y.S.Wan	K.Liu
				SPEC. No.		1/
				<b>H500-0507</b>		

# \*SPECIFICATION\*

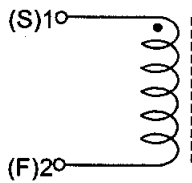
## 1. DIMENSION (UNIT : mm)



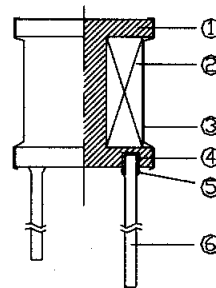
UNFIXED DIRECTION

- \* 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



“ S ” IS WINDING START.

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 (TAIWAN)	E174837	NA	130°C
			TA YA ELECTRIC WIRE FACTORY	CHINA	E197768	NA	130°C
③	TUBE	HEATSHRINKABLE UL TUBING OR EQUIVALENT	CHANGYUAN ELECTRONICS (SHENZHEN) CO LTD	CHINA	E180908	NA	125°C
④	ADHESIVE	EPOXY RESIN (EB-360) OR EQUIVALENT	JS 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
			YUNNAN TIN CO., LTD.	CHINA	NA	NA	NA
④	LEAD PIN	SOLDER PLATED COPPER WIRE OR EQUIVALENT	WELL FORE SPECIAL WIRE CORPORATION	CHINA	NA	NA	NA
	PAINT	ACRYLIC EPOXY (PU#1700 WHITE) OR EQUIVALENT	DONGGUAN JINCHAOYANG COATING CO., LTD.	CHINA	NA	NA	NA

REMARK	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> <b>RoHS Compliant</b>                      環保品                 </div>	SPEC. No. <span style="float: right;">2/5</span>
		<b>H500-0507</b>

COILS ELECTRONIC CO., LTD.

## \*SPECIFICATION\*

### 4. 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	TEST CONDITIONS	SPECIFICATION
1	OPERATION TEMPERATURE  STORAGE TEMPERATURE		-25 ~ +85°C (INCLUDING COIL TEMPERATURE RISE) -40 ~ +85°C
2	LEAD TERMINAL STRENGTH	APPLIED 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%
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: L: WITHIN ±1.0%
6	SHOCK TEST	PEAK ACCELERATION: 981m/s <sup>2</sup> DURATION OF PULSE:10ms SHOCK TIMES: 3 TIMES IN EACH OF X, Y, Z AXIS.(TOTAL 9 TIMES)	
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%

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### 5. ELECTRICAL CHARACTERISTICS

No.	CUST.P/N.	CEC.P/N.	STAMP	INDUCTANCE ( $\mu$ H) Within	UNLOADED Q Min.	D.C.R. ( $\Omega$ ) Max.	S.R.F. (MHz) Ref.	RATED CURRENT (A) Max.	
								Idc1	Idc2
01			2R2M	2.2 $\pm$ 20%	15	9.5m	120	7.0	6.8
02			2R7M	2.7 $\pm$ 20%		10.7m	100	6.7	6.7
03			3R3M	3.3 $\pm$ 20%		12.2m	83	5.8	6.0
04			3R9M	3.9 $\pm$ 20%		14.0m	65	5.4	5.7
05			4R7M	4.7 $\pm$ 20%		15.5m	50	5.1	5.4
06			5R6M	5.6 $\pm$ 20%		17.2m	40	4.7	5.0
07			6R8M	6.8 $\pm$ 20%		18.5m	30	4.3	4.6
08			8R2M	8.2 $\pm$ 20%		23.5m	28	4.0	4.0
09			100K	10 $\pm$ 10%	65	27.0m	20	3.6	3.8
10			120K	12 $\pm$ 10%	60	31.5m	18	3.1	3.7
11			150K	15 $\pm$ 10%		36.0m	16	2.8	3.6
12			180K	18 $\pm$ 10%		40.5m	15	2.6	3.2
13			220K	22 $\pm$ 10%	50	45.0m	14	2.5	3.1
14			270K	27 $\pm$ 10%		61.0m	12	2.2	2.6
15			330K	33 $\pm$ 10%	45	70.0m	11	2.0	2.4
16			390K	39 $\pm$ 10%		75.5m	10	1.8	2.2
17			470K	47 $\pm$ 10%	40	86.5m	8.5	1.7	2.1
18			560K	56 $\pm$ 10%		0.12	8.0	1.5	1.9
19			680K	68 $\pm$ 10%	35	0.13	7.1	1.4	1.8
20			820K	82 $\pm$ 10%		0.15	6.2	1.2	1.6
21			101K	100 $\pm$ 10%		0.18	5.8	1.1	1.5
22			121K	120 $\pm$ 10%	25	0.20	5.2	1.0	1.4
23			151K	150 $\pm$ 10%		0.26	4.8	0.96	1.2
24			181K	180 $\pm$ 10%	23	0.30	4.5	0.88	1.1
25			221K	220 $\pm$ 10%		0.41	3.8	0.78	1.0
26			271K	270 $\pm$ 10%		0.46	3.5	0.72	0.87
27		<b>CW8A904717</b>	331K	330 $\pm$ 10%	15	<b>0.53</b>	<b>3.3</b>	<b>0.66</b>	<b>0.82</b>
28			391K	390 $\pm$ 10%		0.63	3.2	0.62	0.75
29			471K	470 $\pm$ 10%		0.71	2.8	0.56	0.70
30			561K	560 $\pm$ 10%		0.88	2.6	0.50	0.63
31			681K	680 $\pm$ 10%		1.1	2.2	0.46	0.58
32			821K	820 $\pm$ 10%		1.2	2.0	0.42	0.50
33			102K	1000 $\pm$ 10%	25	1.5	1.8	0.38	0.47
34			122K	1200 $\pm$ 10%	33	1.9	1.7	0.34	0.41
35			152K	1500 $\pm$ 10%		2.2	1.5	0.32	0.40

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**ELECTRICAL CHARACTERISTICS**

No.	CUST.P/N.	CEC.P/N.	STAMP	INDUCTANCE ( $\mu$ H) Within	UNLOADED Q Min.	D.C.R. ( $\Omega$ ) Max.	S.R.F. (MHz) Ref.	RATED CURRENT (A) Max.	
								Idc1	Idc2
36			182K	1800 $\pm$ 10%	33	2.7	1.4	0.28	0.35
37			222K	2200 $\pm$ 10%		3.4	1.2	0.26	0.32
38			272K	2700 $\pm$ 10%	45	4.3	1.1	0.22	0.28
39			332K	3300 $\pm$ 10%		5.0	1.0	0.21	0.26
40			392K	3900 $\pm$ 10%		6.0	0.96	0.19	0.23
41			472K	4700 $\pm$ 10%		7.2	0.75	0.17	0.21
42			562K	5600 $\pm$ 10%		8.2	0.70	0.15	0.20
43			682K	6800 $\pm$ 10%		10	0.64	0.14	0.18
44			822K	8200 $\pm$ 10%		13	0.60	0.13	0.15
45			103K	10000 $\pm$ 10%		90	15	0.55	0.11
46			123K	12000 $\pm$ 10%	18		0.50	0.10	0.13
47			153K	15000 $\pm$ 10%	25		0.45	90m	0.11
48			183K	18000 $\pm$ 10%	30		0.38	80m	0.10
49			223K	22000 $\pm$ 10%	35		0.35	70m	90m
50			273K	27000 $\pm$ 10%	47		0.33	65m	80m
51			333K	33000 $\pm$ 10%	54		0.31	60m	75m
52			393K	39000 $\pm$ 10%	65		71	0.26	55m
53			473K	47000 $\pm$ 10%		81	0.24	50m	60m
54			563K	56000 $\pm$ 10%		92	0.22	45m	55m
55			683K	68000 $\pm$ 10%	52	125	0.19	40m	50m
56			823K	82000 $\pm$ 10%		142	0.18	35m	45m
57			104K	100000 $\pm$ 10%		192	0.16	30m	35m

\* TESTING INSTRUMENT

INDUCTANCE : HP 4284A OR EQUIVALENT.

Q : HP 4285A OR EQUIVALENT.

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

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

RATED CURRENT: HP 4284A, HP 42841A, HP E3633A, HP 34420A OR EQUIVALENT.

\* TESTING CONDITIONS OF INDUCTANCE: 2.2 $\mu$ H ~8.2 $\mu$ H at 100kHz/1V, 10 $\mu$ H ~100000 $\mu$ H at 1kHz/1V.

\* TESTING CONDITIONS OF Q: 2.2 $\mu$ H ~8.2 $\mu$ H at 7.96MHz/1V, 10 $\mu$ H ~82 $\mu$ H at 2.52MHz/1V.

100 $\mu$ H ~820 $\mu$ H at 796kHz/1V, 1000 $\mu$ H ~8200 $\mu$ H at 252kHz/1V.

10000 $\mu$ H ~100000 $\mu$ H at 79.6kHz/1V.

\* Idc1 : THE CURRENT WHEN THE INDUCTANCE DECREASES TO 90% OF INITIAL VALUE. (Ta = 25°C)

\* Idc2 : THE CURRENT WHEN THE TEMPERATURE OF COIL IS INCREASED BY 40°C (Ta = 25°C)

\* THE RATED CURRENT INDICATES THE SMALLER ONE BETWEEN Idc1 AND Idc2.

**6. PACKAGE**

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

KB-PLT041       KB-OTH065       KB-OTH607       KB-OTH811

KB-PLT042       KB-OTH066       KB-OTH608       KB-OTH812

SPECIAL FOR CUSTOMER \_\_\_\_\_

**7. RoHS COMPLIANCE REMARKS**

\*LEAD WILL BE PRESENT IN THE FERRITE CORE OF THE FRIT MATRIX IN THE COMPONENT. THIS USE, IS EXEMPT FROM RoHS LEGISLATION PER THE ANNEX (ITEM 7), WHICH REFERS TO "LEAD IN ELECTRONIC CERAMIC PART".

REMARK	SPEC. No. <span style="float: right;">5/5</span>
	<b>H500-0507</b>

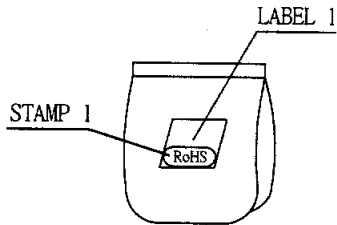
# \* PACKAGE SPECIFICATION \*

APPLICABLE TYPE: CW8A, CW88, CW86, CW9C, CWR5, CWR6, CW8B, CD8A, CWR4, CY8A, CW7A, CW7B

Dimensions (Ref.) : mm

FOR LEAD FREE PARTS

1. 100 Pcs/Unit



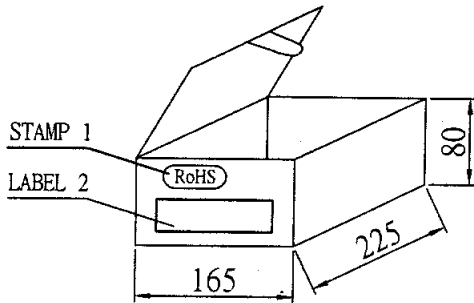
LABEL 1

<b>高維維電子有限公司</b> COILS ELECTRONIC CO., LTD.	
TEL: (852) 23415539	
客戶	
型號	
數量	枚
CE: 04000773-06      1996.08.15	

LABEL 2

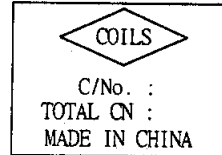
CUSTOMER:	
DESCRIPTION:	
PART NO.:	
LOT NO.:	
QTY:	PIECES
Q.C.PASS:	

2. 10 Units/Box Total 1,000 Pcs



LABEL 3

\* UNLESS OTHERWISE STATED (IN COIL SPEC.) THE LABEL 3 SHALL BE ACCORDING TO CEC STANDARD SHOWN BELOW.

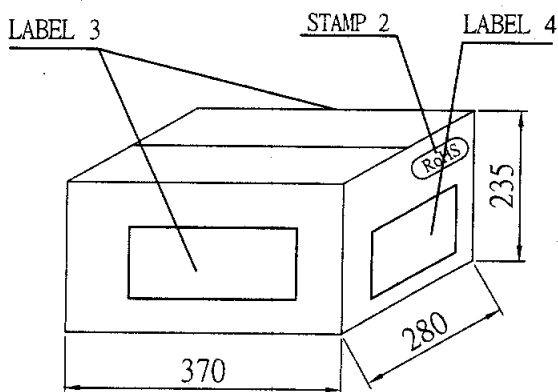


LABEL 4

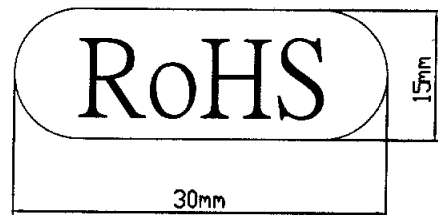
LOT NO.	
COILS P/N	
P/O#:	
Cust. P/N:	
QTY:	
DATE:	

3. Carton

6 Boxes/Carton Total 6,000 Pcs



STAMP 2



STAMP 1



MADE: 23th. Sep., 2005			REVISION	PACKAGE SPEC.No. 1/1
APPROVAL	CHECK	DESIGN		KB-OTH607
