AMENDMENT RECORD

TYPE **CW8ANP**

SYMBOL	DATE	PAGE	CONTENTS	DWN. BY	CHK. BY	APP. BY
1	2005.08.03	P.2/5	ADD STAMP IN MATERIAL LIST.	H.L.Jiang	Z.H.Xiao	H.Z.Cao
2	2005/11/18	P.2/5	CHANGE SOLDER MATERIAL AND MANUFACTURER.	Q.Y.Pi	Z.H.Xiao	H.Z.Cao
3	2009/09/19	P.2/5	CHANGED TUBE MANUFACTURER Updated ink manufacturer from SUNBEAMS CHEMICALS LIMITED to DONGGUAN JINCHAOYANG COATINGS CO; LTD.	C.Z.Tan	Y.S.Wan	T.H.Zhang

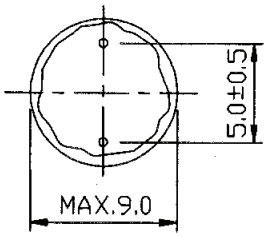
SPEC. No. 1/5

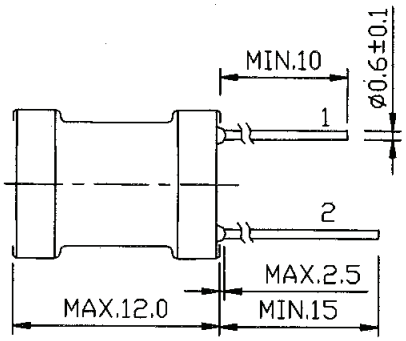
H500-0289

SPECIFICATION

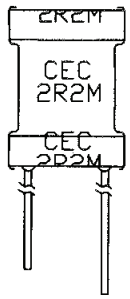
TYPE
CW8ANP

1. DIMENSION (UNIT : mm)





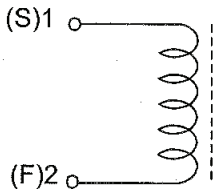
STAMPING (e.g.)



UNFIXED DIRECTION

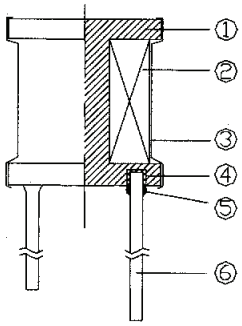
* THE LENGTH OF THE TERMINAL PINS DOES NOT INCLUDE SOLDER TIP.
* PIN PITCH TO BE MEASURED FROM THE ROOT OF TERMINAL.

2. CIRCUIT



" S " IS WINDING START.

3. CONSTRUCTION



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℃
			JUNG SHING WIRE CO., LTD.	CHINA (TAIWAN)	E174837	NA	130℃
			TA YA ELECTRIC WIRE FACTROY	CHINA	E197768	NA	130℃
③	TUBE △3	HEATSHRINKABLE UL TUBING OR EQUIVALENT	CHANGYUAN ELECTRONICS (SHENZHEN) CO.LTD	CHINA	E180908	NA	125℃
④	ADHESIVE	EPOXY RESIN(EB-360) OR EQUIVALENT	JS CHANG FENG CO., LTD.	CHINA	NA	NA	NA
⑤	SOLDER △1	Sn99.3-Cu0.7 OR EQUIVALENT	ALPHA METALS LTD.	CHINA HONG KONG	NA	NA	NA
⑥	LEAD PIN	SOLDER PLATED COPPER WIRE OR EQUIVALENT	WELL FORE SPECIAL WIRE CORPORATION	CHINA	NA	NA	NA
	STAMP △3	ACRYLIC EPOXY (PU#1700 WHITE) OR EQUIVALENT	DONGGUAN JINCHAOYANG COATINGS CO; LTD.	CHINA	NA	NA	NA

20th, Dec., 2004			PART No. REFER. TO P.4/5,5/5	
APPROVAL	CHECK	DESIGN		
R&D	R&D	R&D	REMARK **LEAD FREE**	SPEC. No. 2/5 **H500-0289**

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℃ TO 35℃. 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℃±1℃. RELATIVE HUMIDITY : 63% TO 67%. AIR PRESSURE : 86kPa TO 106kPa.

No.	ITEMS	TEST CONDITIONS	SPECIFICATION
1	OPERATION TEMPERATURE STORAGE TEMPERATURE		-25 ~ +85℃ (INCLUDING COIL TEMPERATURE RISE) -40 ~ +85℃
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℃ 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℃ FOR 2±0.5 SECONDS.	OVER 90% OF THE SURFACE BEING IMMERSED 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^2 DURATION OF PULSE:10ms SHOCK TIMES: 3 TIMES IN EACH OF X, Y, Z AXIS.(TOTAL 9 TIMES)	
7	HUMIDITY TEST	TEMPERATURE: 40℃±2℃ HUMIDITY: 90%～95%RH DURATION:96±4 HOURS.	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±3.0%

TYPE
CW8ANP

5. ELECTRICAL CHARACTERISTICS

No.	PART No.	STAMP	INDUCTANCE (μH) Within	UNLOADED Q Min.	D.C.R. (Ω) Max.	S.R.F. (MHz) Ref.	RATED CURRENT (A) Max.	
							Idc1	Idc2
01	CW8ANP-2R2M	2R2M	2.2 ± 20%	15	9.5m	120	7.0	6.8
02	CW8ANP-2R7M	2R7M	2.7 ± 20%		10.7m	100	6.7	6.7
03	CW8ANP-3R3M	3R3M	3.3 ± 20%		12.2m	83	5.8	6.0
04	CW8ANP-3R9M	3R9M	3.9 ± 20%		14.0m	65	5.4	5.7
05	CW8ANP-4R7M	4R7M	4.7 ± 20%		15.5m	50	5.1	5.4
06	CW8ANP-5R6M	5R6M	5.6 ± 20%		17.2m	40	4.7	5.0
07	CW8ANP-6R8M	6R8M	6.8 ± 20%		18.5m	30	4.3	4.6
08	CW8ANP-8R2M	8R2M	8.2 ± 20%		23.5m	28	4.0	4.0
09	CW8ANP-100K	100K	10 ± 10%	65	27.0m	20	3.6	3.8
10	CW8ANP-120K	120K	12 ± 10%	60	31.5m	18	3.1	3.7
11	CW8ANP-150K	150K	15 ± 10%		36.0m	16	2.8	3.6
12	CW8ANP-180K	180K	18 ± 10%		40.5m	15	2.6	3.2
13	CW8ANP-220K	220K	22 ± 10%	50	45.0m	14	2.5	3.1
14	CW8ANP-270K	270K	27 ± 10%		61.0m	12	2.2	2.6
15	CW8ANP-330K	330K	33 ± 10%	45	70.0m	11	2.0	2.4
16	CW8ANP-390K	390K	39 ± 10%		75.5m	10	1.8	2.2
17	CW8ANP-470K	470K	47 ± 10%	40	86.5m	8.5	1.7	2.1
18	CW8ANP-560K	560K	56 ± 10%		0.12	8.0	1.5	1.9
19	CW8ANP-680K	680K	68 ± 10%	35	0.13	7.1	1.4	1.8
20	CW8ANP-820K	820K	82 ± 10%		0.15	6.2	1.2	1.6
21	CW8ANP-101K	101K	100 ± 10%		0.18	5.8	1.1	1.5
22	CW8ANP-121K	121K	120 ± 10%	25	0.20	5.2	1.0	1.4
23	CW8ANP-151K	151K	150 ± 10%		0.26	4.8	0.96	1.2
24	CW8ANP-181K	181K	180 ± 10%	23	0.30	4.5	0.88	1.1
25	CW8ANP-221K	221K	220 ± 10%		0.41	3.8	0.78	1.0
26	CW8ANP-271K	271K	270 ± 10%		0.46	3.5	0.72	0.87
27	CW8ANP-331K	331K	330 ± 10%	15	0.53	3.3	0.66	0.82
28	CW8ANP-391K	391K	390 ± 10%		0.63	3.2	0.62	0.75
29	CW8ANP-471K	471K	470 ± 10%		0.71	2.8	0.56	0.70
30	CW8ANP-561K	561K	560 ± 10%		0.88	2.6	0.50	0.63
31	CW8ANP-681K	681K	680 ± 10%		1.1	2.2	0.46	0.58
32	CW8ANP-821K	821K	820 ± 10%		1.2	2.0	0.42	0.50
33	CW8ANP-102K	102K	1000 ± 10%	25	1.5	1.8	0.38	0.47

REMARK	SPEC. No. 4/5
	H500-0289

TYPE
CW8ANP

ELECTRICAL CHARACTERISTICS

No.	PART No.	STAMP	INDUCTANCE (μH) Within	UNLOADED Q Min.	D.C.R. (Ω) Max.	S.R.F. (MHz) Ref.	RATED CURRENT (A) Max.	
							Idc1	Idc2
34	CW8ANP-122K	122K	1200 ± 10%	33	1.9	1.7	0.34	0.41
35	CW8ANP-152K	152K	1500 ± 10%		2.2	1.5	0.32	0.40
36	CW8ANP-182K	182K	1800 ± 10%		2.7	1.4	0.28	0.35
37	CW8ANP-222K	222K	2200 ± 10%		3.4	1.2	0.26	0.32
38	CW8ANP-272K	272K	2700 ± 10%	45	4.3	1.1	0.22	0.28
39	CW8ANP-332K	332K	3300 ± 10%		5.0	1.0	0.21	0.26
40	CW8ANP-392K	392K	3900 ± 10%		6.0	0.96	0.19	0.23
41	CW8ANP-472K	472K	4700 ± 10%		7.2	0.75	0.17	0.21
42	CW8ANP-562K	562K	5600 ± 10%		8.2	0.70	0.15	0.20
43	CW8ANP-682K	682K	6800 ± 10%		10	0.64	0.14	0.18
44	CW8ANP-822K	822K	8200 ± 10%		13	0.60	0.13	0.15
45	CW8ANP-103K	103K	10000 ± 10%	90	15	0.55	0.11	0.14
46	CW8ANP-123K	123K	12000 ± 10%		18	0.50	0.10	0.13
47	CW8ANP-153K	153K	15000 ± 10%		25	0.45	90m	0.11
48	CW8ANP-183K	183K	18000 ± 10%		30	0.38	80m	0.10
49	CW8ANP-223K	223K	22000 ± 10%		35	0.35	70m	90m
50	CW8ANP-273K	273K	27000 ± 10%		47	0.33	65m	80m
51	CW8ANP-333K	333K	33000 ± 10%		54	0.31	60m	75m
52	CW8ANP-393K	393K	39000 ± 10%	65	71	0.26	55m	65m
53	CW8ANP-473K	473K	47000 ± 10%		81	0.24	50m	60m
54	CW8ANP-563K	563K	56000 ± 10%		92	0.22	45m	55m
55	CW8ANP-683K	683K	68000 ± 10%	52	125	0.19	40m	50m
56	CW8ANP-823K	823K	82000 ± 10%		142	0.18	35m	45m
57	CW8ANP-104K	104K	100000 ± 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 E3632A, HP 34401A OR EQUIVALENT.
* TESTING CONDITIONS OF INDUCTANCE: 2.2μH ~8.2μH at 100kHz/1V, 10μH ~100000μH at 1kHz/1V .
* TESTING CONDITIONS OF Q: 2.2μH ~8.2μH at 7.96MHz/1V, 10μH ~82μH at 2.52MHz/1V .
  100μH ~820μH at 796kHz/1V, 1000μH ~8200μH at 252kHz/1V .
  10000μH ~100000μH at 79.6kHz/1V.
* Idc1 : THE CURRENT WHEN THE INDUCTANCE DECREASES TO 90% OF INITIAL VALUE. (Ta = 25℃)
* Idc2 : THE CURRENT WHEN THE TEMPERATURE OF COIL IS INCREASED BY 40℃ (Ta = 25℃)
* 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-PLT042 ☐ KB-OTH066 ☐ KB-OTH608
☐ SPECIAL FOR CUSTOMER KB_____.

REMARK	SPEC. No. 5/5
	H500-0289