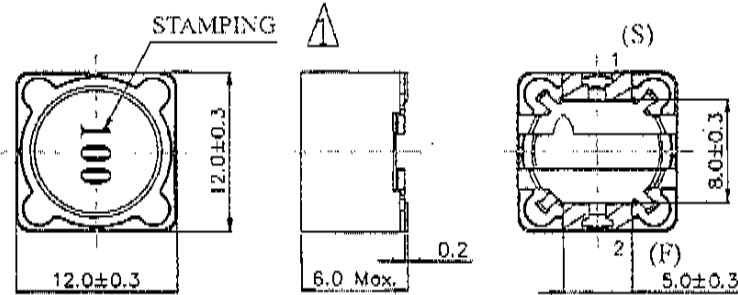


SPECIFICATION

TYPE
DRH125NP

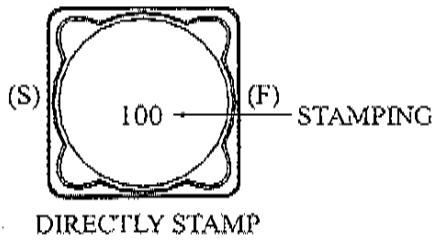
1. DIMENSION (UNIT:mm)



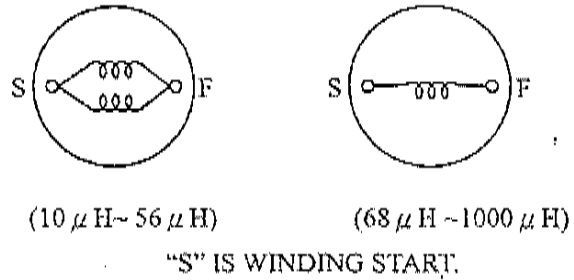
ELECTRODE TERMINAL

* ELECTRODE WITH A "∧" MARK IS THE ELECTRODE (S).
* DIMENSIONS WITHOUT TOLERANCE ARE APPROX.

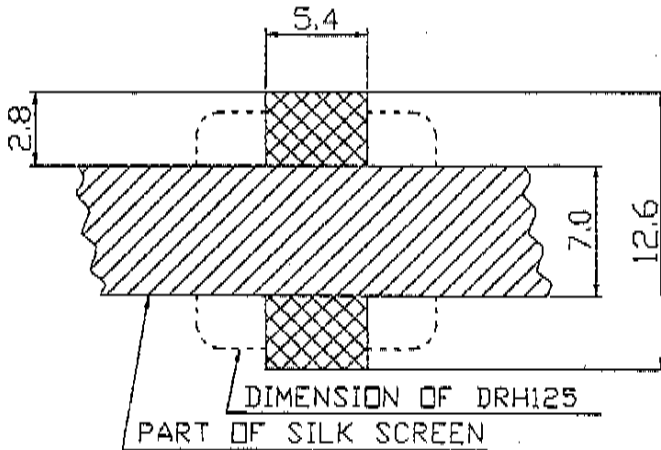
2. STAMPING (e.g.)



3. CONNECTION (INTERNAL)



4. LAND PATTERN (UNIT: mm)



14th , Apr., 2004			PART No.	-----
APPROVAL	CHECK	DESIGN	Refer To P. 3/5	
			REMARK	SPEC. No. 2/5
			LEAD FREE	H500-0209

TYPE

DRH125NP

5. ELECTRICAL CHARACTERISTICS

No.	PART No.	STAMP	INDUCTANCE (μ H) WITHIN	D.C.R. (Ω , at 20°C) Max.	RATED CURRENT (A) MAX.	
					Idc1	Idc2
01	DRH125NP-100M	100	10 \pm 20%	27.0m	4.50	4.20
02	DRH125NP-120M	120	12 \pm 20%	28.0m	4.30	3.60
03	DRH125NP-150M	150	15 \pm 20%	32.0m	3.90	3.50
04	DRH125NP-180M	180	18 \pm 20%	35.0m	3.60	3.20
05	DRH125NP-220M	220	22 \pm 20%	44.0m	3.20	2.90
06	DRH125NP-270M	270	27 \pm 20%	51.0m	2.90	2.70
07	DRH125NP-330M	330	33 \pm 20%	57.0m	2.50	2.50
08	DRH125NP-390M	390	39 \pm 20%	68.0m	2.20	2.20
09	DRH125NP-470M	470	47 \pm 20%	75.0m	2.20	2.00
10	DRH125NP-560M	560	56 \pm 20%	91.0m	2.10	1.90
11	DRH125NP-680M	680	68 \pm 20%	0.14	1.80	1.60
12	DRH125NP-820M	820	82 \pm 20%	0.15	1.70	1.50
13	DRH125NP-101M	101	100 \pm 20%	0.16	1.40	1.45
14	DRH125NP-121M	121	120 \pm 20%	0.18	1.40	1.30
15	DRH125NP-151M	151	150 \pm 20%	0.24	1.20	1.05
16	DRH125NP-181M	181	180 \pm 20%	0.29	1.10	1.00
17	DRH125NP-221M	221	220 \pm 20%	0.35	1.00	0.95
18	DRH125NP-271M	271	270 \pm 20%	0.43	0.90	0.90
19	DRH125NP-331M	331	330 \pm 20%	0.51	0.85	0.80
20	DRH125NP-391M	391	390 \pm 20%	0.62	0.80	0.70
21	DRH125NP-471M	471	470 \pm 20%	0.70	0.73	0.65
22	DRH125NP-561M	561	560 \pm 20%	0.86	0.60	0.58
23	DRH125NP-681M	681	680 \pm 20%	1.05	0.55	0.55
24	DRH125NP-821M	821	820 \pm 20%	1.34	0.53	0.47
25	DRH125NP-102M	102	1000 \pm 20%	1.53	0.45	0.42

* MEASURING FREQUENCY L at 1 kHz, 1V

Idc1: THIS INDICATES THE CURRENT WHEN THE INDUCTANCE IS 25% LESS
THAN IT'S INITIAL VALUE.

Idc2: THIS INDICATES THE CURRENT WHEN THE TEMPERATURE RISE IS 40°C (Ta = 20°C)

REMARK	SPEC. No. 3/5
	H500-0209

TYPE

DRH125NP

6. 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 ~ +100°C (INCLUDING COIL TEMPERATURE RISE) -30 ~ +100°C
2	FIXING STRENGTH	SAMPLE IS PUSHED IN THREE DIRECTIONS OF X,Y AND Z WITH THE FORCE OF 5.0N FOR 60±5 SECONDS.AFTER SOLDERING BETWEEN COPPER PLATE AND ELECTRODES.	NO ELECTRODE DETACHMENT.
3	RESISTANCE TO SOLDERING HEAT TEST	REFER TO STD-002NP.	NO MECHANICAL BREAKAGE. DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±5.0%
4	SOLDERABILITY TEST	IMMERSE THE ELECTRODE IN FLUX FOR 5 SEC. THEN DIP THE ELECTRODE INTO SOLDER BATH CONTAINING MOLTEN SOLDER AT 245±5°C FOR 2±0.5 SECONDS.	OVER 90% OF THE SURFACE BEING IMMersed SHALL BE COVERED WITH A NEW UNIFORM SOLDER.
5	VIBRATION TEST	AMPLITUDE:1.5mm P-P FREQUENCY:10~55~10Hz (1 MINUTE PER CYCLE) DURATION:2H IN EACH OF X,Y,Z AXIS(TOTAL 6H)	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±3.0%
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)	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±3.0%
7	HUMIDITY TEST	TEMPERATURE: 40°C±2°C HUMIDITY: 90%~95%RH DURATION:96±4 HOURS.	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±5.0%

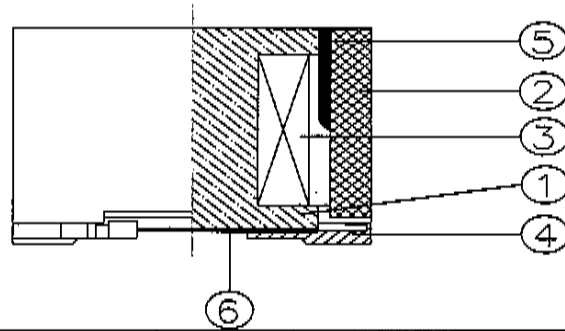
REMARK

SPEC. No.

4/5

H500-0209

7. CONSTRUCTION



TYPE
DRH125NP

MATERIAL LIST

No.	PARTS	MATERIAL	MANUFACTURE	COUNTRY OF ORIGIN	UL No.
①	△	FERRITE CORE (F041)	FER RI TE ELECTRONIC IND CO., LTD.	CHINA(TAIWAN)	NA
		FERRITE CORE (L7H)	TDK. LTD.	JAPAN	NA
		FERRITE CORE (H7S)	HUOH YOW ENTERPRISE CO.,LTD	CHINA(TAIWAN)	NA
②	△	FERRITE CORE (F041)	FER RI TE ELECTRONIC IND CO., LTD.	CHINA(TAIWAN)	NA
		FERRITE CORE (L7H)	TDK. LTD.	JAPAN	NA
		FERRITE CORE (H7S)	HUOH YOW ENTENPRISE CO.,LTD	CHINA(TAIWAN)	NA
③	WIRE	POLYURETHANE ENAMELLED COPPER WIRE	JUNG SHING WIRE CO., LTD.	CHINA	E174837
④	ELECTRODE	Cu PLATING+ SOLDER PLATING △	LIAN CHENG ELECTRONIC CO., LTD.	CHINA	NA
⑤	ADHESIVE	EPOXY RESIN (XNR3614)	NAGASE& CO., LTD.	JAPAN	NA
⑥	ADHESIVE	EPOXY RESIN (XN1263)	NAGASE& CO., LTD.	JAPAN	NA
	SOLDER	Sn99.3-Cu0.7.	ALPHA METALS LTD	CHINA HONG KONG	NA

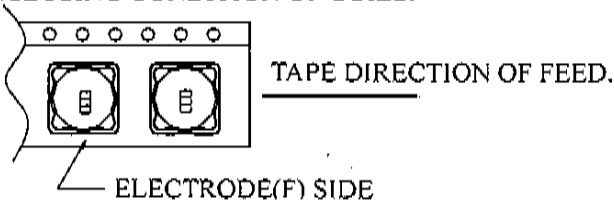
8. PACKING

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

KB -CTR006

SPECIAL FOR CUSTOMER KB _____

* ENCLOSING CONDITION OF COILS.



9. REMARK

* NO WASHING AGENT.

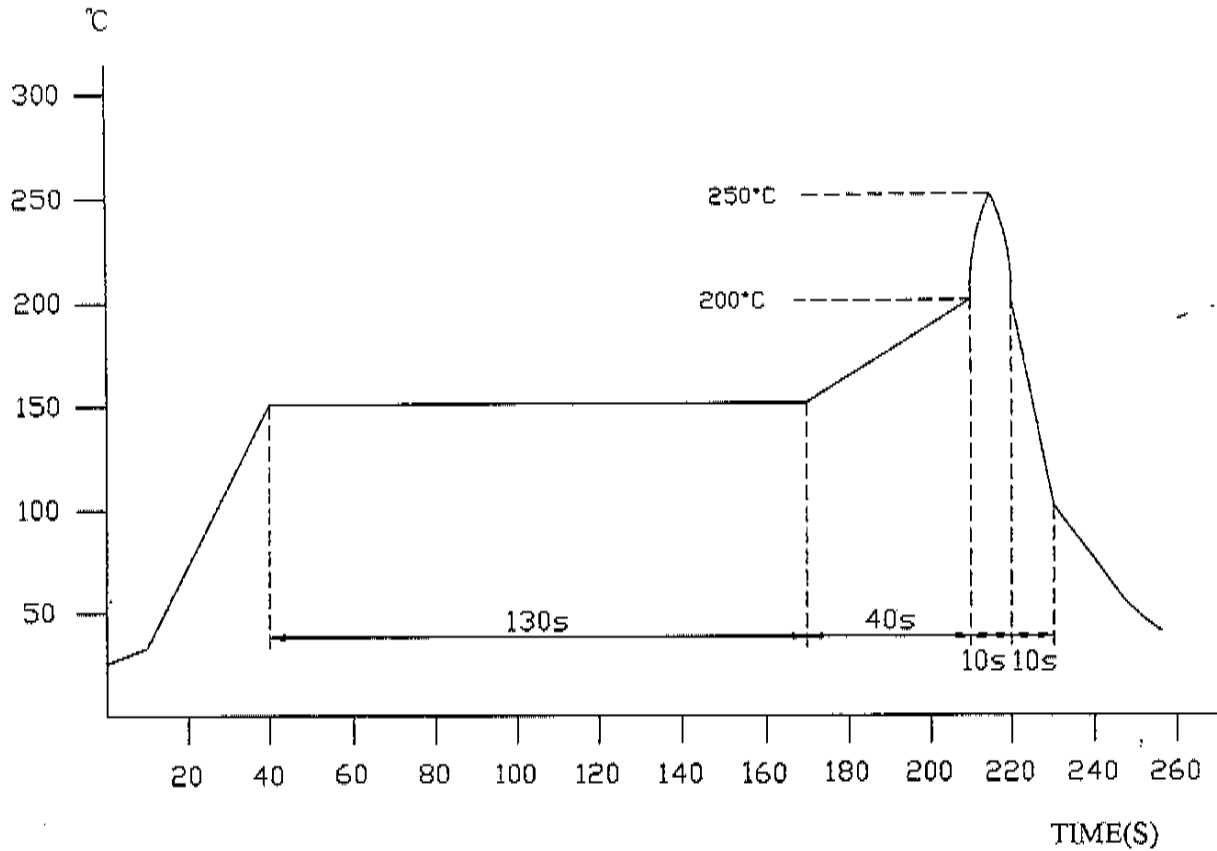
* RECOMMENDED REFLOW CONDITION BASES ON STD-001NP.

* DUE TO HEAVY WEIGHT COIL, PLEASE MOUNT THIS COIL AT THE POSITION OF P.C.B. WHERE STANDS A SUPPORT OR BOBBIN.

REMARK	SPEC. No. 5/5 H500-0209
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THE RECOMMENDED REFLOW CONDITION (LEAD FREE)

TEMPERATURE



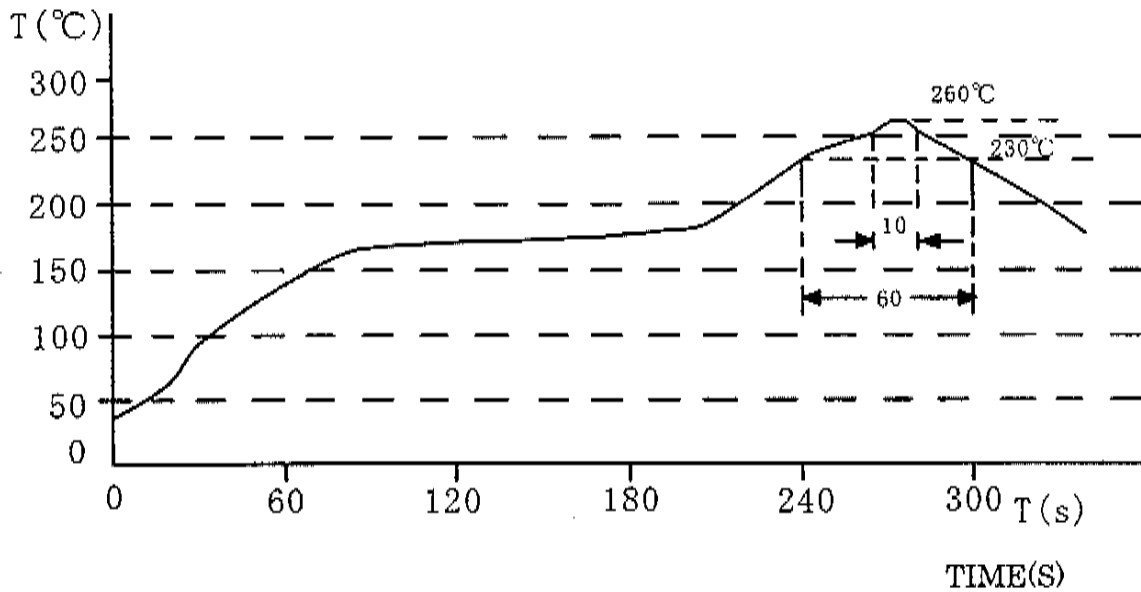
* THE REFLOW CONDITION RECOMMENDED ABOVE IS ACCORDING TO THE MACHINE USED BY OUR COMPANY. BIG DIFFERENCES WILL ARISE AS A RESULT OF THE TYPE OF MACHINE, REFLOW CONDITIONS, METHOD, ETC USED. HENCE, BEFORE SETTING UP YOUR REFLOW CONDITIONS, PLEASE CONFIRM WITH THE ABOVE. MOREOVER, PLEASE CLEAR ALL DOUBTS WITH OUR COMPANY BEFORE STARTING.

25th, Feb.,2004			VERSIONS	1	25th, Feb.,2004	FILE No. 1/1 STD-001NP
APPROVAL	CHECK	PREPARE		2	9th, Nov.,2004	



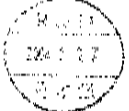
COILS ELECTRONIC CO., LTD.

HEAT ENDURANCE TEST (LEAD FREE)

TEMPERATURE



- * THE TEST SHOULD BE MADE UNDER THE CONDITIONS ACCORDING TO THE CHART, AFTER THE TEST IT IS KEPT FOR 2 HOURS UNDER THE NORMAL TEMPERATURE AND HUMIDITY. THEN, NO MECHANICAL AND ELECTRICAL DEFECT SHOULD BE FOUND OUT.
- * THE REFLOW TEST CAN BE DONE TWICE, BUT THE INTERVAL SHOULD BE MORE THAN ONE HOUR UNDER THE NORMAL CONDITIONS.
- * THE REFLOW TEST CONDITIONS ARE BASED ON THE TESTING INSTRUMENTS AVAILABLE IN CEC.

25th, Feb., 2004			REVISIONS	FILE No. 1/1
APPROVAL	CHECK	PREPARE		STD-002NP
				

COILS ELECTRONIC CO., LTD.

PACKAGE SPECIFICATIONS

1. APPLICATION OF THIS SPECIFICATION

1) APPLIES TO CEC COILS ELECTRONIC CO., LTD. PACKING.

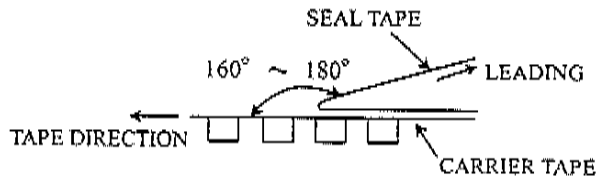
2. APPLICATION (TYPES): DRH125

3. TAPING SPECIFICATION

- 1) REEL DIMENSIONS..... FIGURE 1
- 2) TAPE DIMENSIONS..... FIGURE 2.
- 3) TAPE DIMENSION..... FIGURE 3

4. TAPING




- 1) THE CARRIER TAPE AND SHIELD TAPE IS WOUND IN ONE CONTINUOUS REEL WITHOUT ANY JOINTED PORTIONS. SHOULD ANY PIECE OF COIL BE MISSING FROM THE CARRIER TAPE, A "CROSS(X)" SLIT WOULD BE MADE ON THE SHIELD OF THE CARTRIDGE AND A COIL REPLACED. AFTER WHICH, CELLOPHANE TAPE IS USED TO RESEAL THE CATRIDGE.
- 2) THE ANGLE BETWEEN THE SEAL TAPE DURING PEELOFF AND THE DIRECTION OF B UNREELING SHALL BE 165° TO 180° .THE SEAL TAPE SHALL ADHERE UNIFORMLY TO THE CARRIER TAPE ALONG BOTH SIDES IN THE DIRECTION OF UNREELING .THE PEEL FORCE WITH A PEEL SPEED OF 300mm/MIN±10mm/MIN SHALL BE AS FOLLOWS:
 0.1N TO 1.0N FOR AN 8mm TAPE WIDTH.
 0.1N TO 1.3N FOR A 12mm~56mm TAPE WIDTH.



- 3) PRECAUTION: COMPLETED REELS WITH RADIUS LESS THAN 40mm WILL RESULT IN THE FOLLOWING.
 (I) CRACKS ON THE CARRIER TAPE
 (II) SHIELD TAPE TEARING OFF

5. PACKING

- 1) POSITION OF COILS IN THE CARRIER TAPE: REFER TO THE SPECIFICATION OF THE INDIVIDUAL PART.
- 2) THERE SHOULD NOT BE:
 (I) WRONG POSITION OF GOODS IN THE CARRIER TAPE
 (II) REJECTED GOODS IN THE CARRIER TAPE
 (III) MISSING GOODS FROM THE CARRIER TAPE
- 3) ONE REEL CONSISTS OF 500 PIECES OF COIL.
- 4) ON THE COMPLETED END OF THE REEL, THE CARRIER TAPE IS FIXED WITH A DRIVING TAPE.

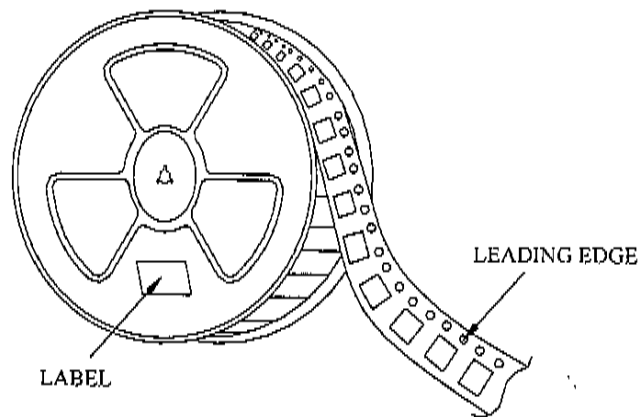
29th, Aug., 2001				
APPROVAL	CHECK	DESIGN		
			REMARK	PACKAGE SPEC. No. 2/5 KB-CTR006

6. INDICATION

1) THE FOLLOWING WILL BE INDICATED ON ONE SIDE OF THE REEL:

TYPE NAME	
CUSTOMER PART NO.	
SUPPLIER PART NO.	
SUPPLIER SPEC. NO.	
QUANTITY	
LOT NO.	

2) LABEL POSITION DESCRIPTION REFER TO THE FIGURE SHOWN BELOW:

**7. HANDING PRECAUTION**

THE SURFACE OF THE REEL CANNOT WITHSTAND A WEIGHT/FORCE EXCEEDING 9.8N.

8. STORAGE

GOODS TO BE STORED UNDER TEMPERATURES LESS THAN 60°C, WITH HUMIDITY NOT EXCEEDING 90%. IF THE STORAGE PERIOD IS LONG, REEL SHOULD BE REWOUND.

9. OTHERS

UNIT OF MEASURE USED WHEN PLACING ORDERS: REEL.

REMARK	PACKAGE SPEC. No. 3/5
	KB-CTR006

FIGURE 1 REEL DIMENSIONS

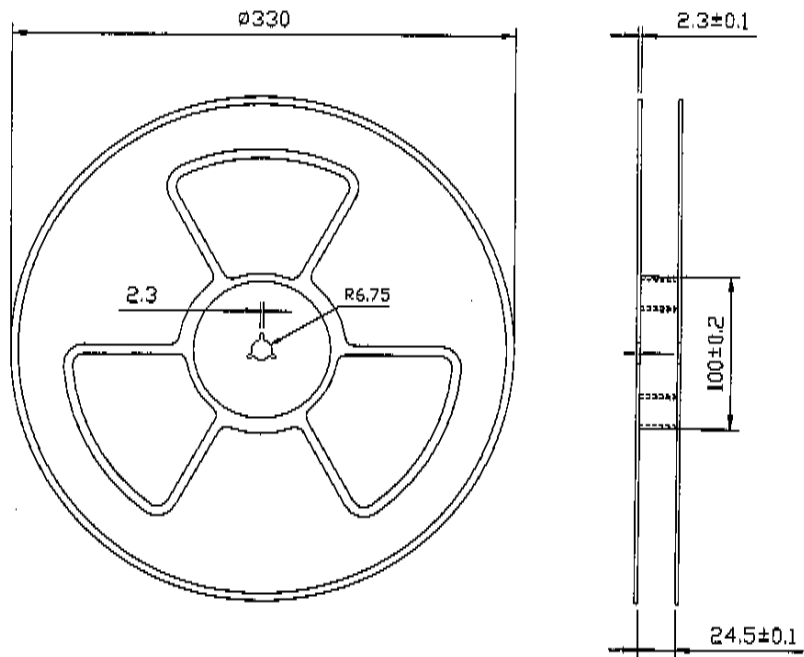
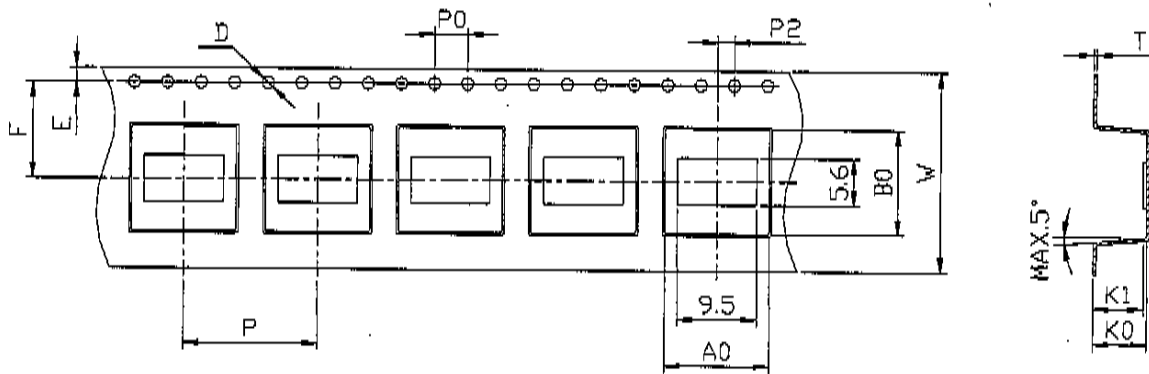


FIGURE 2 TAPE DIMENSIONS

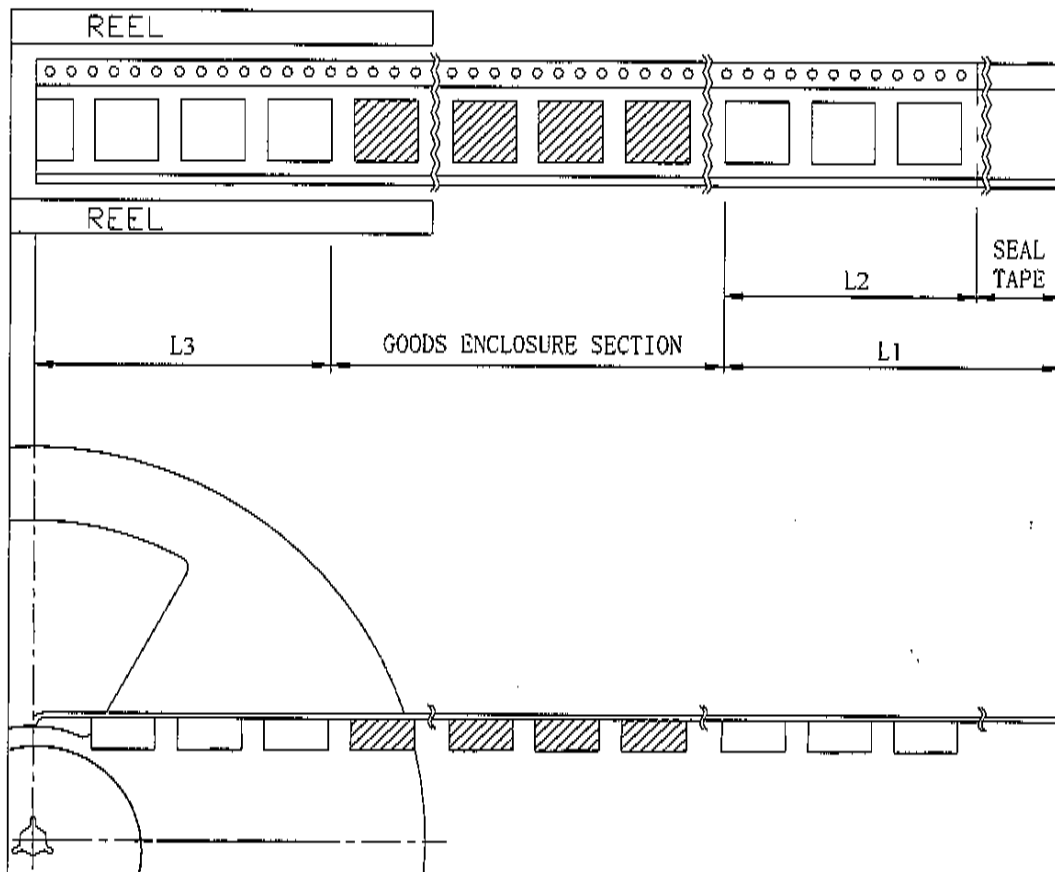


DIMENSIONS (UNIT: mm)											
W	A0	B0	K0	K1	P	F	E	D	P0	P2	T
24.0 ^{+0.30} _{-0.10}	12.55 ^{+0.10} _{-0.10}	12.55 ^{+0.10} _{-0.10}	6.4 ^{+0.10} _{-0.10}	6.0 ^{+0.10} _{-0.10}	16.0 ^{+0.10} _{-0.10}	11.5 ^{+0.10} _{-0.10}	1.75 ^{+0.10} _{-0.10}	1.5 ^{+0.10} _{-0.00}	4.00 ^{+0.10} _{-0.10}	2.00 ^{+0.10} _{-0.10}	0.35±0.05

REMARK	PACKAGE SPEC. No.	4/5
	KB-CTR006	

FIGURE 3 TAPE DIMENSION

L1	LEADER SECTION LENGTH	MIN. 400mm
L2	START CARRIER TAPE LENGTH	MIN. 100mm
L3	TRAILER SECTION LENGTH	MIN. 160mm
	QUANTITY	500pcs



REMARK	PACKAGE SPEC. No.	5/5
	KB-CTR006	