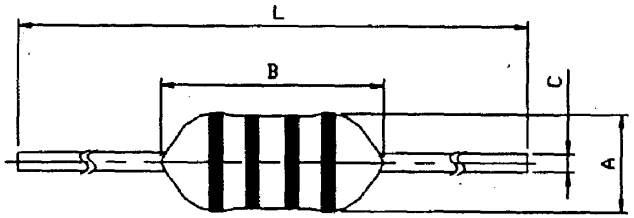
SPECIFICATION

TYPE
CEC

1. DIMENSION (UNIT: mm)



COLOR RING 1 2 3 4

	A	MAX. ϕ3.2
	B	MAX. 7.0
⚠1	C	ϕ0.50±0.05 (0.1~18 μ H) ϕ0.48±0.05 (22~1000 μ H)
	L	63±3

* THE LENGTH OF THE TERMINAL PINS DOES NOT INCLUDE SOLDER TIP.

2. CIRCUIT

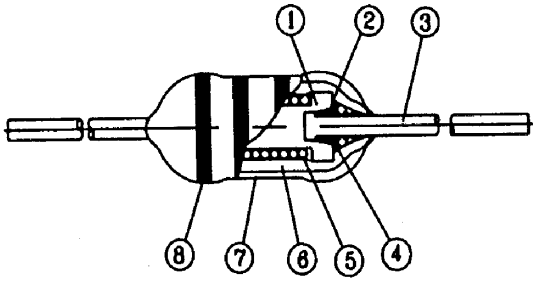
Jameco Part Number 208240

3. MARKING

COLOR	FIRST FIGURE 1	SECOND FIGURE 2	MULTIPLIER 3	TOLERANCE 4
BLACK	0	0	1	± 20%
BROWN	1	1	10	-
RED	2	2	100	-
ORANGE	3	3	1000	-
YELLOW	4	4	-	-
GREEN	5	5	-	-
BLUE	6	6	-	-
VIOLET	7	7	-	-
GRAY	8	8	-	-
WHITE	9	9	-	-
GOLD	-	-	0.1	± 5%
SILVER	-	-	0.01	± 10%

TYPE
CEC

4. CONSTRUCTION:



No.	NAME	MATERIAL	MANUFACTURER
1	CORE	FERRITE CORE CM11, CM9D, CL9H OR EQUIVALENT	TONICHI FERRITE PRODUCTS CO., LTD. etc.
2	ADHESIVE	EPOXY RESIN	GUANG ZHOU WELLS CHEMICAL CO., LTD. etc.
3	LEAD WIRE	SOLDER PLATED COPPER WIRE	WELL FORE SPECIAL WIRE CORPORATION
4	SOLDER	H60A	ALPHA METALS LTD. etc.
5	WIRE	POLYURETHANE ENAMELLED COPPER WIRE	RIKEN ELECTRIC WIRE CO., LTD. etc. JENLEY ENTERPRISES LTD. JUNG SHING WIRE CO., LTD.
6	UNDER-COATING RESIN	BUTADIENE RESIN	HOMETOWN INDUSTRIAL CO., LTD. etc.
7	OVER-COATING RESIN	EPOXY RESIN	HOMETOWN INDUSTRIAL CO., LTD. etc.
8	COLOR CODE	MELAMINE RESIN	HOMETOWN INDUSTRIAL CO., LTD. etc.

TYPE
CEC

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℃~35℃. RELATIVE HUMIDITY : 25% ~85%. AIR PRESSURE : 86kPa ~106kPa.
IF THERE IS ANY DOUBT ABOUT THE RESULTS, MEASUREMENT SHALL BE MADE WITHIN THE FOLLOWING LIMITS: AMBIENT TEMPERATURE: 20℃±1℃. RELATIVE HUMIDITY : 63% ~67%. AIR PRESSURE : 86kPa ~106kPa.

No.	ITEMS		TEST CONDITIONS	SPECIFICATION
1	OPERATION TEMPERATURE STORAGE TEMPERATURE			-25 ~ +85℃ (INCLUDING COIL TEMPERATURE RISE) -40 ~ +85℃
2	LEAD TERMINAL STRENGTH	PULLING	A STATIC PULLING FORCE OF 25N IN A DIRECTION PARALLEL TO THE LEAD TERMINALS FOR 5±1 SECONDS.	NO TERMINAL BREAKAGE OR LOOSENING
		BENDING	LOAD WITH 3.0N AND 90° BENDING AND STRAIGHTENING TWICE IN TWO DIRECTIONS (UPWARD & DOWNWARD)	
3	DIELECTRIC WITHSTAND VOLTAGE TEST		D.C.500V APPLIED BETWEEN WINDING-BODY FOR 1 MINUTE.	NO DIELECTRIC DAMAGE
4	INSULATION RESISTANCE TEST		D.C.500V APPLIED BETWEEN WINDING-BODY FOR 1 MINUTE.	OVER 100 MΩ
5	OVER CURRENT TEST		INPUT 2 TIMES OF RATED INTO THE SAMPLE FOR 5 MINUTES.	NO FIRE OR ANY ABNORMALITY
6	RESISTANCE TO SOLDERING HEAT TEST		FIX THE SAMPLES ON A 1.6MM THICKNESS PCB, THEN DIP THE SAMPLE LEADS UP TO THE PCB INTO A SOLDERING BATH OF 260±5℃ FOR 5±1 SECONDS.	NO MECHANICAL BREAKAGE. DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±3.0% QU: WITHIN ±20%
7	SOLDER ABILITY TEST		IMMERSE THE TERMINAL IN FLUX FOR 5 SECONDS. THEN DIP THE TERMINAL INTO A SOLDERING BATH OF 235±5℃ FOR 2±0.5 SECONDS.	OVER 90% OF THE SURFACE BEING IMMERSED SHALL BE COVERED WITH NEW SOLDER UNIFORMLY.
8	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% QU: WITHIN ±20%
9	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 ±1.0% QU: WITHIN ±20%
10	HUMIDITY TEST		TEMPERATURE: 40℃±2℃ HUMIDITY: 90%~95%RH DURATION: 500±12 HOURS.	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±10% QU: WITHIN ±20%
11	DRY HEAT TEST		TEMPERATURE: 85℃±2℃ DURATION: 500±12 HOURS.	
12	COLD TEST		TEMPERATURE: -25℃±3℃ DURATION: 500±12 HOURS.	
13	DRY HEAT WITH LOAD		TEMPERATURE: 85℃±2℃ LOAD CONDITION: RATED CURRENT DURATION: 500±12 HOURS.	
14	DAMP HEAT WITH LOAD		TEMPERATURE: 40℃±2℃ HUMIDITY: 90%~95%RH ② LOAD CONDITION: RATED CURRENT DURATION: 500±12 HOURS.	
15	THERMAL SHOCK		5 CONTINUOUS CYCLES SHOWN AS BELOW TEMPERATURE / DURATION -25℃±3℃ / 30 MINUTES 85℃±3℃ / 30 MINUTES	

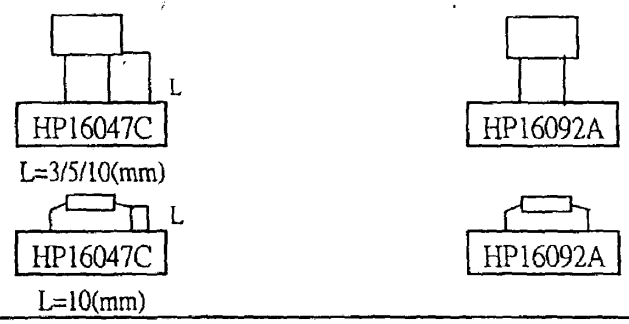
ELECTRICAL CHARACTERISTIC INSPECTION REPORT

電氣性能測試報告(五)

2002年6月3日

CUSTOMER (客戶名稱): 菁盛 (R4005)					PART NO: CEC-102J SPEC. NO. H500-0011	
ITEM (項目)	L (mH)	Q	SRF (MHz)	Rdc (Ω)	RATED CURRENT (mA) I dc (ΔL/L:-10%)	 I (ΔT= 20 ℃)
SPEC. (規格)	1.0 ± 5%	45 Min.	1.5 Min.	31.3 Max.	80 Max.	45 Max.
1	1.03	74	2.07	25.0	160	63
2	1.03	74	2.08	24.7	160	
3	1.02	73	2.09	25.2	170	
4	1.02	79	2.20	24.4	150	
5	1.00	82	2.24	24.7	160	
Max .	1.03	82	2.24	25.2	170	
Min .	1.00	73	2.07	24.4	150	
R	0.03	9	0.17	0.8	20	
$\overline{X}$	1.020	76.4	2.136	24.80	160.0	
TESTING FREQUENCY (測試頻率)	796kHz/1V					

TESTING DIAGRAM (測試示意圖) :



TESTING INSTRUMENT (測試儀器) :

1. Q METER	☐ MQ-1601	7. IMPEDANCE ANALYZER	☐ HP-4191A
2. L.C.R. METER	☐ LCR-745		☐ HP-4291B
	☑ HP-4284A		☐ HP-4395A
	☑ HP-4285A		☐ HP-4294A
	☐ HP-4262A	8. BIAS CURRENT SOURCE	☑ HP-42841A
3. L.C.Z. METER	☐ HP-4277A	9. MICRO-OHM METER	☐ KEITHLEY 580
4. MULTIMETER	☑ HP-34401A		☑ HP-34420A
5. DC POWER SUPPLY METER	☑ HP-E3632A	10. NETWORK ANALYZER	☐ HP-8753C
6. THEROMETER	☐ TES1310	11. DIELECTRIC ANALYZER	☐ DU-332

TESTING CONDITION (測試條件) :

TEMPERATURE (溫度) : 20 ℃

HUMIDITY (濕度) : 65 %

APPROVED	CHECKED	TESTED
R&D 2002-6-3 楊崇樹	R&D 2002.6.-3 黃惠玲	R&D 2002 6 03 魏建華