



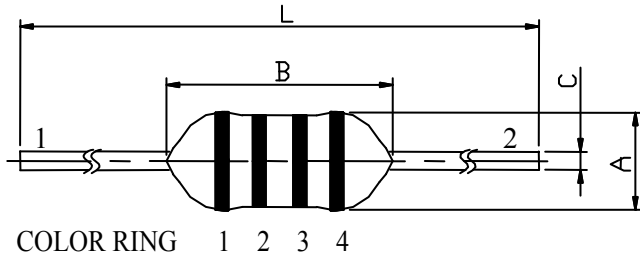
FIXED INDUCTORS

TYPE

CECL

SPECIFICATION

1. DIMENSION (UNIT: mm)



A	MAX. $\phi 4.0$
B	MAX. 9.8
C	$\phi 0.60 \pm 0.05$
L	63 ± 3

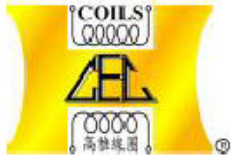
* THE LENGTH OF THE TERMINAL PINS DOES NOT INCLUDE SOLDER TIP.

2. CIRCUIT



3. MARKING

COLOR	FIRST FIGURE	SECOND FIGURE	MULTIPLIER	TOLERANCE 4
	1	2	3	
BLACK	0	0	1	$\pm 20\%$
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	-	-
GOLDEN	-	-	0.1	$\pm 5\%$
SILVER	-	-	0.01	$\pm 10\%$

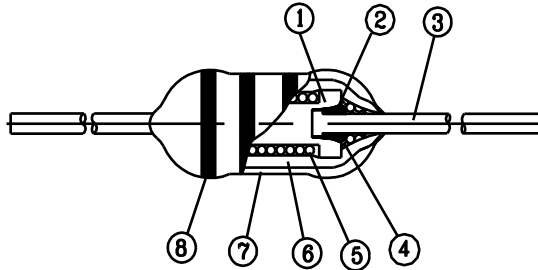


FIXED INDUCTORS

4. CONSTRUCTION:

TYPE

CECL



No.	NAME	MATERIAL
1	CORE	FERRITE CORE CQ5B, CL6E OR EQUIVALENT
2	ADHESIVE	EPOXY RESIN
3	LEAD WIRE	SOLDER PLATED COPPER WIRE
4	SOLDER	H60A
5	WIRE	POLYURETHANE ENAMELLED COPPER WIRE
6	UNDER-COATING RESIN	BUTADIENE RESIN
7	OVER-COATING RESIN	EPOXY RESIN
8	COLOR CODE	MELAMINE RESIN

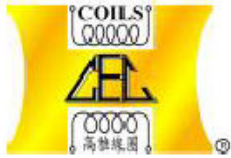


FIXED INDUCTORS

TYPE
CECL

5. ELECTRICAL CHARACTERISTICS

No.	MODEL	L (μ H)	L TOLERANCE	Q Min.	D.C.R. (Ω) Max.	RATED CURRENT Max. (A) ※	S.R.F. (MHz) Min.	MEASURING FREQUENCY (MHz)	MATERIAL
01	CECL-1R0□-812201	1.0	M, K	45	0.18	0.80	93	7.96	CQ5B
02	CECL-1R2□-812202	1.2		50	0.20	0.73	86		
03	CECL-1R5□-812244	1.5			0.22	0.70	80		
04	CECL-1R8□-812203	1.8		55	0.24	0.67	75		
05	CECL-2R2□-812204	2.2			0.27	0.66	70		
06	CECL-2R7□-812205	2.7			0.30	0.65	67		
07	CECL-3R3□-812206	3.3		60	0.34	0.60	63		
08	CECL-3R9□-812207	3.9		65	0.36	0.57	43		
09	CECL-4R7□-812208	4.7		70	0.38	0.55	37		
10	CECL-5R6□-812209	5.6			0.40	0.52	32		
11	CECL-6R8□-812210	6.8		60	0.45	0.50	25		
12	CECL-8R2□-812211	8.2			0.50	0.46	16.5		
13	CECL-100□-812212	10			0.60		14.0		
14	CECL-120□-812213	12		50	0.65	0.38	12.5		
15	CECL-150□-812214	15	0.74		0.34	11.0			
16	CECL-180□-812215	18	0.80		0.32	8.5			
17	CECL-220□-812216	22	0.85		0.31	6.5			
18	CECL-270□-812217	27	45		0.95	0.29	4.8		
19	CECL-330□-812218	33			1.1	0.28	4.2		
20	CECL-390□-812219	39			1.9	0.22			
21	CECL-470□-812220	47	40	2.1	0.20	4.1			
22	CECL-560□-812221	56		2.3			3.8		
23	CECL-680□-812222	68		2.5	0.19	3.8			
24	CECL-820□-812223	82		2.7	0.18	3.5			
25	CECL-101□-812224	100		3.4	0.15	3.2			
26	CECL-121□-812225	120	55	4.7		2.5			
27	CECL-151□-812226	150	45	5.0	0.13	2.3	0.796	CL6E	
28	CECL-181□-812227	180	50	5.7		2.2			
29	CECL-221□-812228	220	55	6.2	0.12	2.0			
30	CECL-271□-812229	270	50	7.1		1.8			
31	CECL-331□-812230	330		7.7	0.11	1.7			



FIXED INDUCTORS

TYPE

CECL

ELECTRICAL CHARACTERISTICS

No.	MODEL	L (μ H)	L TOLERANCE	Q Min.	D.C.R. (Ω) Max.	RATED CURRENT Max. (A) ※	S.R.F. (MHz) Min.	MEASURING FREQUENCY (MHz)	MATERIAL
32	CECL-391□-812231	390	M, K, J	50	10.5	0.10	1.6	0.796	CL6E
33	CECL-471□-812232	470			11.9		0.09		
34	CECL-561□-812233	560			13.3	1.4			
35	CECL-681□-812234	680			15.1	0.08	1.3		
36	CECL-821□-812235	820		45	20.0	0.06	1.2		
37	CECL-102□-812236	1000		40	21.0		0.90		
38	CECL-122□-812237	1200		30	32.0	0.055	0.82	0.252	
39	CECL-152□-812238	1500			44.5		0.045		
40	CECL-182□-812239	1800			50.0	0.040	0.68		
41	CECL-222□-812240	2200			54.0		0.52		
42	CECL-272□-812241	2700			61.0	0.035	0.40		
43	CECL-332□-812242	3300			68.5		0.28		
44	CECL-392□-812243	3900			74.0	0.030	0.12		

* □: M: \pm 20%, K: \pm 10%, J: \pm 5%

* TESTING INSTRUMENT

INDUCTANCE & Q: HP 4284A & HP 4285A OR EQUIVALENT.

D.C.R.: KEITHLEY 580 MICRO OHM METER OR EQUIVALENT.

RATED CURRENT: HP 4284A, HP42841A, HP E3632A, HP 34401A OR EQUIVALENT.

S.R.F.: HP 4395A, HP4285A OR EQUIVALENT.

※ THIS INDICATES THE VALUE OF CURRENT WHEN THE INDUCTANCE IS 10% LOWER THAN ITS INITIAL VALUE AT D.C. SUPERPOSITION OR D.C. CURRENT WHEN AT $\Delta t=20^{\circ}\text{C}$ WHICHEVER IS LOWER.



FIXED INDUCTORS

6. GENERAL CHARACTERISTICS

TYPE
CECL

* STANDARD TESTING CONDITIONS:

UNLESS OTHERWISE SPECIFIED, THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MEASUREMENTS AND TESTS ARE AS FOLLOWS: AMBIENT TEMPERATURE: 15°C~35°C. 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°C±1°C. RELATIVE HUMIDITY : 63% ~67%. AIR PRESSURE : 86kPa ~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	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°C 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°C 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°C±2°C 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°C±2°C DURATION: 500±12 HOURS.	
12	COLD TEST		TEMPERATURE: -25°C±3°C DURATION: 500±12 HOURS.	
13	DRY HEAT WITH LOAD		TEMPERATURE: 85°C±2°C LOAD CONDITION: RATED CURRENT DURATION: 500±12 HOURS.	
14	DAMP HEAT WITH LOAD		TEMPERATURE: 40°C±2°C HUMIDITY: 90% ~ 95%RH LOAD CONDITION: RATED CURRENT DURATION: 500±12 HOURS.	
15	THERMAL SHOCK		5 CONTINUOUS CYCLES SHOWN AS BELOW	
			TEMPERATURE	DURATION
			-25°C±3°C	30 MINUTES
		85°C±3°C	30 MINUTES	