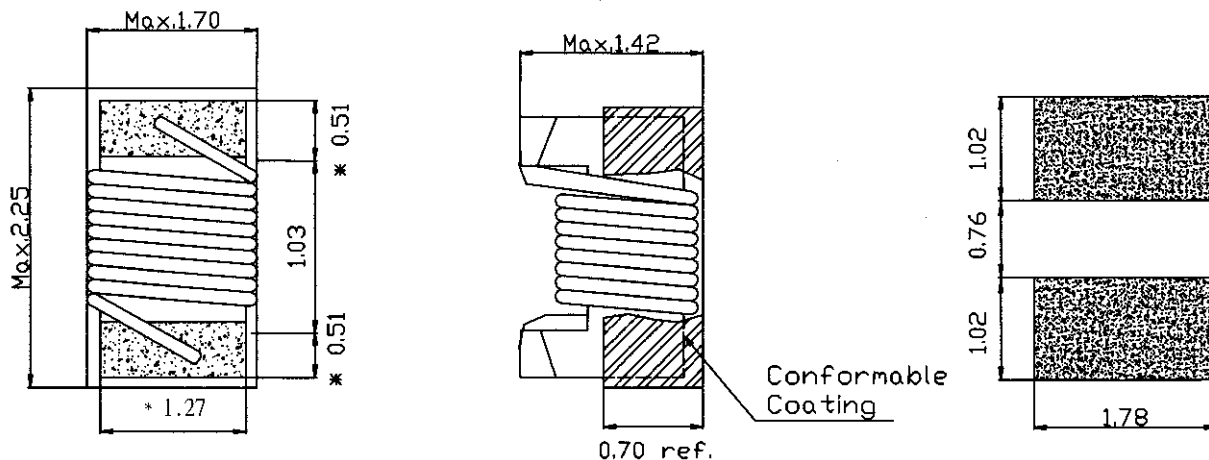


SPECIFICATION

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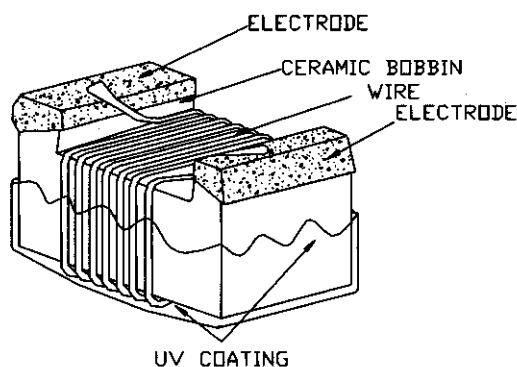
1. APPEARANCE DIMENSION (UNIT : mm)



* ELECTRODE DIMENSION

※TOLERANCE: $\pm 0.1\text{mm}$.

2. FORMATION STRUCTURE



PARTS	MATERIAL	MANUFACTURE	COUNTRY OF ORIGIN	UL No.	TEMP. CLASS
CERAMIC BOBBIN ③	MB-2UBW4-F2S8 Or MB-2UBW9-F2S8	PHONON MEIWA INC.	JAPAN	NA	NA
	0805AS OR EQUIVALENT	THREE CIRCLE	CHINA	NA	NA
WIRE	3HSEW-C or 2HSEW-C OR EQUIVALENT	RIKEN ELECTRIC WIRE CO., LTD.	JAPAN	E79028	155°C
UV COATING ③	UV RESIN (TB1357B) OR EQUIVALENT	THREEBOND (HONG KONG) CO., LTD.	CHINA (HONG KONG)	NA	NA
	UV RESIN (UV376) OR EQUIVALENT	XYNCHRON TECHNOLOGIES SND. BHD.	MALAYSIA	NA	NA
ELECTRODE	Ag-Pd/Ni/Sn OR EQUIVALENT	PHONON MEIWA INC.	JAPAN	NA	NA
		THREE CIRCLE	CHINA	NA	NA

* NA: NOT APPLICABLE.

4th. June., 2003			CEC. P/N:	
APPROVAL	CHECK	DESIGN	Ref. To P3/7	
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3. ELECTRICAL CHARACTERISTICS

No.	CEC. P/N	Inductance		Test Freq. (MHz)	Q Min.	Test Freq. (MHz)	S.R.F. (MHz)Min.	DCR (Ω) max.	DCI (mA)
		L (nH)	Tolerance *						
01	CCFH 0805 C 2N7 □	2.7	J, K	250	80	1500	7900	0.06	800
02	CCFH 0805 C 3N0 □	3.0	J, K	250	65	1500	7900	0.06	800
03	CCFH 0805 C 3N3 □	3.3	J, K	250	50	1500	7900	0.08	600
04	CCFH 0805 C 5N6 □	5.6	J, K	250	65	1000	5500	0.08	600
05	CCFH 0805 C 6N8 □	6.8	J, K	250	50	1000	5500	0.11	600
06	CCFH 0805 C 7N5 □	7.5	J, K	250	50	1000	4500	0.14	600
07	CCFH 0805 C 8N2 □	8.2	G, J, K	250	50	1000	4700	0.12	600
08	CCFH 0805 C 10N □	10.0	G, J, K	250	60	500	4200	0.10	600
09	CCFH 0805 C 12N □	12.0	G, J, K	250	50	500	4000	0.15	600
10	CCFH 0805 C 15N □	15.0	G, J, K	250	50	500	3400	0.17	600
11	CCFH 0805 C 18N □	18.0	G, J, K	250	50	500	3300	0.20	600
12	CCFH 0805 C 22N □	22.0	G, J, K	250	55	500	2600	0.22	500
13	CCFH 0805 C 24N □	24.0	G, J, K	250	50	500	2000	0.22	500
14	CCFH 0805 C 27N □	27.0	G, J, K	250	55	500	2500	0.25	500
15	CCFH 0805 C 33N □	33.0	G, J, K	250	60	500	2050	0.27	500
16	CCFH 0805 C 36N □	36.0	G, J, K	250	55	500	1700	0.27	500
17	CCFH 0805 C 39N □	39.0	G, J, K	250	60	500	2000	0.29	500
18	CCFH 0805 C 43N □	43.0	G, J, K	200	60	500	1650	0.34	500
19	CCFH 0805 C 47N □	47.0	G, J, K	200	60	500	1650	0.31	500
20	CCFH 0805 C 56N □	56.0	G, J, K	200	60	500	1550	0.34	500
21	CCFH 0805 C 68N □	68.0	G, J, K	200	60	500	1450	0.38	500
22	CCFH 0805 C 82N □	82.0	G, J, K	150	65	500	1300	0.42	400
23	CCFH 0805 C 91N □	91.0	G, J, K	150	65	500	1200	0.48	400
24	CCFH 0805 C R10 □	100.0	G, J, K	150	65	500	1200	0.46	400
25	CCFH 0805 C R11 □	110.0	G, J, K	150	50	250	1000	0.48	400
26	CCFH 0805 C R12 □	120.0	G, J, K	150	50	250	1100	0.51	400
27	CCFH 0805 C R15 □	150.0	G, J, K	100	50	250	920	0.56	400
28	CCFH 0805 C R18 □	180.0	G, J, K	100	50	250	870	0.64	400
29	CCFH 0805 C R22 □	220.0	G, J, K	100	50	250	850	0.70	400
30	CCFH 0805 C R24 □	240.0	G, J, K	100	44	250	690	1.0	350
31	CCFH 0805 C R27 □	270.0	G, J, K	100	48	250	650	1.0	350
32	CCFH 0805 C R33 □	330.0	G, J, K	100	48	250	600	1.4	310
33	CCFH 0805 C R39 □	390.0	G, J, K	100	48	250	560	1.5	290
34	CCFH 0805 C R47 □	470.0	J, K	50	33	100	375	1.76	250
35	CCFH 0805 C R56 □	560.0	J, K	25	23	50	340	1.90	230
36	CCFH 0805 C R68 □	680.0	J, K	25	23	50	188	2.20	190
37	CCFH 0805 C R82 □	820.0	J, K	25	23	50	215	2.35	180
38	CCFH 0805 C 1R0 □	1000.0	J, K	25	23	50	282	6.90	92

* Testing instrument and conditions

DCR : HP 34420A or equivalent

Inductance & Q : HP 4287A & HP16193A or equivalent

S.R.F. : HP 8720ES or equivalent

DCI : Based on a 20 maximum temperature rise.

Inductance tolerance: G = $\pm 2\%$, J = $\pm 5\%$, K = $\pm 10\%$

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4. STORAGE TEMPERATURE: -40 +125 .

5. OPERATION TEMPERATURE: -40 +125 (INCLUDING COIL TEMPERATURE RISE DUE TO SELF-GENERATED HEAT)

6. RELIABILITY TEST STANDARD

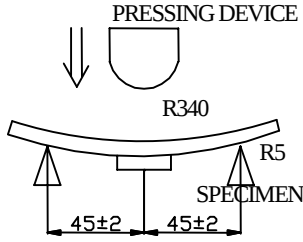
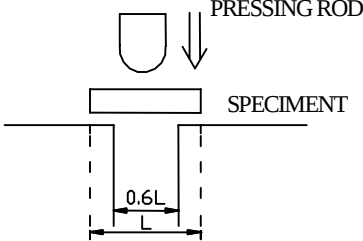
* STANDARD TESTING CONDITIONS:

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.	ITEM	CONDITION	SPECIFICATION
1	TEMPERATURE COEFFICIENT	-40 +85	DEVIATION RELATIVE TO INITIAL VALUE AT 25 . L: WITHIN±5.0%
2	BENDING	APPLY PRESSURE GRADUALLY IN THE DIRECTION OF THE ARROW AT A RATE OF ABOUT 0.5mm/sec UNTIL BENT DEPTH REACHES 3mm AND HOLD FOR 30sec.  BOARD: 40×100mm, THICKNESS 1.0mm.	NO MECHANICAL DAMAGE SUCH AS BREAKAGE OR CRACK. ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED.
3	FIXING STRENGTH	SAMPLE IS PUSHED IN THREE DIRECTIONS OF X, Y AND Z WITH FORCE OF 10N FOR 10 SECONDS AFTER SOLDERING BETWEEN COPPER PLATE AND ELECTRODES.	NO ELECTRODE DETACHMENT.
4	BODY STRENGTH TEST	STATIC PRESSURE: 10N DURATION: 10 SECONDS 	NO MECHANICAL DAMAGE SUCH AS BREAKAGE OR CRACK. ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED.
5	SOLDERABILITY TEST	IMMERSE THE ELECTRODE IN FLUX FOR 5 SECONDS. THEN DIP THE ELECTRODE INTO A SOLDERING BATH OF 245±5 FOR 2±0.5 SECONDS.	OVER 95% OF THE SURFACE BEING IMMERSED SHALL BE COVERED WITH NEW SOLDER UNIFORMLY.

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No.	ITEM	CONDITION	SPECIFICATION					
6	RESISTANCE TO SOLDERING HEAT TEST(SOLDERING IRON)	APPLY THE SOLDERING IRON OF 350 ±10 TO EACH ELECTRODE FOR 3±0.5 SECONDS.	NO MECHANICAL BREAKAGE. DEVIATION RELATIVE TO					
7	RESISTANCE TO SOLDERING HEAT TEST (REFLOW SOLDERING)	PLEASE REFER TO THE ATTACHMENT STD-002NP.	INITIAL VALUE: L: WITHIN ±3.0%					
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					
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)	VALUE: L: WITHIN ±2.0%					
10	LOW TEMPERATURE STORAGE TEST	TEMPERATURE: -40 ±3 DURATION:1000±12 HOURS. RECOVERY:1 TO 2 HOURS RECOVERY UNDER STANDARD CONDITION.	* NO MECHANICAL BREAKAGE. * DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ±5.0% Q: WITHIN ±20%					
11	HIGH TEMPERATURE STORAGE TEST	TEMPERATURE: 125 ±2 DURATION:1000±12 HOURS. RECOVERY:1 TO 2 HOURS RECOVERY UNDER STANDARD CONDITION.						
12	HUMIDITY TEST	TEMPERATURE: 60 ±2 HUMIDITY: 90% 95%RH DURATION: 1000±12 HOURS. RECOVERY:1 TO 2 HOURS RECOVERY UNDER STANDARD CONDITION.						
13	HUMIDITY LOAD LIFE TEST	TEMPERATURE: 60 ±2 HUMIDITY: 90% 95%RH LOAD CONDITION:RATED CURRENT DURATION:1000±12 HOURS. RECOVERY:1 TO 2 HOURS RECOVERY UNDER STANDARD CONDITION.						
14	THERMAL SHOCK	100 CONTINUOUS CYCLES SHOWN AS BELOW <table><tr><td>TEMPERATURE</td><td>DURATION</td></tr><tr><td>-40 ±3</td><td>30 MINUTES.</td></tr><tr><td>125 ±2</td><td>30 MINUTES.</td></tr></table> RECOVERY:1 TO 2 HOURS RECOVERY UNDER STANDARD CONDITION.		TEMPERATURE	DURATION	-40 ±3	30 MINUTES.	125 ±2
TEMPERATURE	DURATION							
-40 ±3	30 MINUTES.							
125 ±2	30 MINUTES.							

7. PACKINGPACKAGE TO BE ACCORDING TO SPECIFICATION (TICK THE RELEVANT “ ☒ ”)

- ☐ PACKAGE TO BE ACCORDING TO PACKAGE SPEC. KB-CTR002.
☐ PACKAGE TO BE ACCORDING TO PACKAGE SPEC. KB-CTR602.
☐ PACKAGE TO BE ACCORDING TO PACKAGE SPEC. KB-CTR802. 3
☐ SPECIAL FOR CUSTOMER KB_____ .

8. REMARK

- * RECOMMENDED REFLOW CONDITION BASES ON STD-001NP.
 * RECOMMENDED HEAT ENDURANCE TEST BASES ON STD-002NP.

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