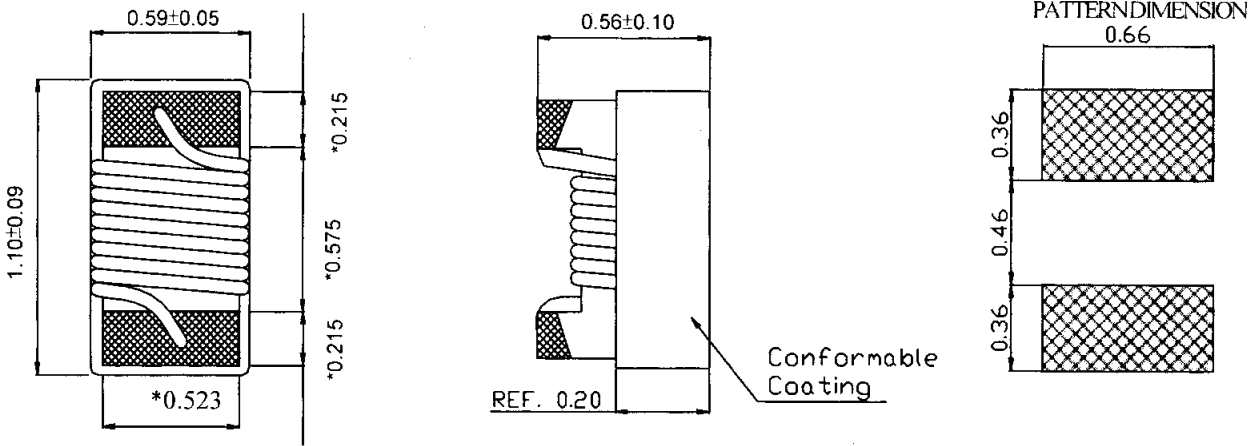


SPECIFICATION

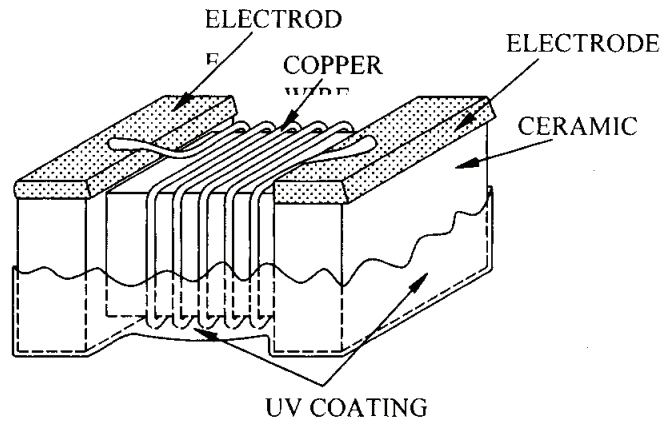
TYPE HCFT0402C

1. APPEARANCE DIMENSION (UNIT : mm)



* CORE DIMENSION ※ TOLERANCE: ± 0.1 mm.

2. FORMATION STRUCTURE



PARTS	MATERIAL	MANUFACTURER	COUNTRY OF ORIGIN	UL No.	TEMP. CLASS
BOBBIN	CERAMIC(MB-4HXW6-NIS6 or MB-4HXW4-FIS) OR EQUIVALENT	PHONON MEIWA INC.	CHINA (TAIWAN)	NA	NA
WIRE	HSEW-C OR EQUIVALENT	RIKEN ELECTRIC WIRE CO., LTD.	JAPAN	E79028	155°C
UV COATING	UV RESIN(TB1357B) OR EQUIVALENT	THREE BOND (HONG KONG) CO., LTD.	CHINA (HONG KONG)	NA	NA
ELECTRODE	Mo-Mn/Ni/Sn or Ag-Pd/Ni/Sn OR EQUIVALENT	PHONON MEIWA INC.	CHINA (TAIWAN)	NA	NA

*NA: NOT APPLICABLE.

REMARK
CUST. P/N · CEC. P/N: Refer. To Item 3.

RoHS Compliant
環保品

SPEC. No. 2/5
H500-0421

3. ELECTRICAL CHARACTERISTICS

No.	CUST.P/N	CEC.P/N	Inductance		Q Min.	Test Freq. (MHz)	S.R.F. (GHz)Min.	DCR (Ω) max.	DCI (mA) max.
			L(mH)	Tolerance*					
01			1.0	JK	160	250	12.70	0.045	1360
02			1.9	JK	160	250	11.30	0.070	1040
03			2.0	JK	160	250	11.10	0.070	1040
04			2.2	JK	190	250	10.80	0.070	960
05			2.4	JK	150	250	10.50	0.068	790
06			2.7	JK	160	250	10.40	0.120	640
07			3.3	JK	190	250	7.00	0.066	840
08			3.6	JK	190	250	6.80	0.066	840
09			3.9	JK	190	250	6.00	0.066	840
10			4.3	JK	180	250	6.00	0.091	700
11			4.7	JK	150	250	4.77	0.130	640
12			5.1	JK	200	250	4.80	0.083	800
13			5.6	JK	200	250	4.80	0.083	760
14			6.2	JK	200	250	4.80	0.083	760
15			6.8	JK	200	250	4.80	0.083	680
16			7.5	GJK	220	250	4.80	0.100	680
17			8.2	GJK	220	250	4.40	0.100	680
18			8.7	GJK	180	250	4.10	0.200	480
19			9.0	GJK	220	250	4.16	0.100	680
20			9.5	GJK	180	250	4.00	0.200	480
21			10.0	GJK	210	250	3.90	0.200	480
22			11.0	GJK	240	250	3.68	0.120	640
23		HCTF0402C12NJ	12.0	J	240	250	3.60	0.120	640
24			13.0	GJK	240	250	3.45	0.210	440
25		HCTF0402C15NJ	15.0	J	240	250	3.28	0.170	560
26			16.0	GJK	240	250	3.10	0.220	560
27		HCTF0402C18NJ	18.0	J	240	250	3.10	0.230	420
28			19.0	GJK	240	250	3.04	0.200	480
29			20.0	GJK	250	250	3.00	0.250	420
30			22.0	GJK	250	250	2.80	0.300	400
31			23.0	GJK	220	250	2.72	0.300	400
32			24.0	GJK	250	250	2.70	0.300	400
33			27.0	GJK	240	250	2.48	0.300	400
34			30.0	GJK	250	250	2.35	0.300	400
35			33.0	GJK	240	250	2.35	0.300	400
36			36.0	GJK	240	250	2.32	0.440	320
37			39.0	GJK	250	250	2.10	0.550	200
38			40.0	GJK	240	250	2.24	0.440	320
39			43.0	GJK	250	250	2.03	0.810	100
40			47.0	JK	200	250	2.10	0.830	150
41			51.0	GJK	250	250	1.75	0.820	100
42			56.0	GJK	220	250	1.76	0.970	100
43			68.0	GJK	220	250	1.62	1.120	100
44			82.0	JK	200	250	2.0	2.24	100
45			100.0	JK	200	250	1.1	2.52	120
46			120.0	JK	200	250	1.0	2.66	110

* Testing instrument and conditions

D.C.R.: HP 34420A or equivalent Inductance & Q: HP 4287A & HP16193A or equivalent

S.R.F.: HP 8720ES or equivalent DCI: Based on a 20°C maximum temperature rise above 25°C ambient

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

* Electrical characteristic at 25°C.

REMARK	SPEC.No. 3/5 H500-0421
--------	----------------------------------

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°C~35°C.

RELATIVE HUMIDITY: 25%~85%. AIR PRESSURE: 86kPa~106kPa

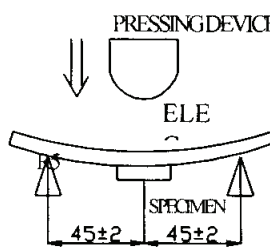
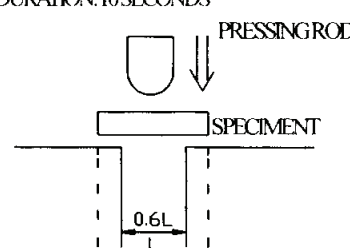
IF THERE IS ANY DOUBT ABOUT THE RESULTS, MEASUREMENT SHALL BE MADE WITHIN THE FOLLOWING LIMITS:

AMBIENT TEMPERATURE: 20°C±1°C. RELATIVE HUMIDITY: 63%~67%

AIR PRESSURE: 86kPa~106kPa

TYPE

HCFT0402C

No.	ITEM	CONDITION	SPECIFICATION
1	OPERATION TEMPERATURE		-40~+125°C (INCLUDING COIL TEMPERATURE RISE DUE TO SELF-GENERATED HEAT)
2	STORAGE TEMPERATURE		-40~+125°C
3	TEMPERATURE COEFFICIENT	-40~+85°C	DEVIATION RELATIVE TO INITIAL VALUE AT 25°C. L: WITHIN ±5.0%
4	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	NOMECHANICAL DAMAGE SUCH AS BREAKAGE OR CRACK.
5	FIXING STRENGTH	SAMPLE IS PUSHED IN THREE DIRECTIONS OF X, Y AND Z WITH FORCE OF 4.5N FOR 10 SECONDS AFTER SOLDERING BETWEEN COPPER PLATE AND ELECTRODES.	NOMELECTRODE DETACHMENT.
6	BODY STRENGTH TEST	STATIC PRESSURE: 10N DURATION: 10 SECONDS 	NOMECHANICAL DAMAGE SUCH AS BREAKAGE OR CRACK.
7	SOLDERABILITY TEST	IMMERSE THE ELECTRODE IN FLUX FOR 5 SECONDS, THEN DIP THE ELECTRODE INTO A SOLDERING BATH OF 245±5°C FOR 2±0.5 SECONDS.	OVER 95% OF THE SURFACE BEING IMMERSIED SHALL BE COVERED WITH INEW SOLDER UNIFORMLY.

REMARK

SPEC.No. 4/5

H500-0421

TYPE
HCFT0402C

No.	ITEM	CONDITION	SPECIFICATION						
8	RESISTANCE TO SOLDERING HEAT TEST (SOLDERING IRON)	APPLY THE SOLDERING IRON OF 350°C ± 10°C TO EACH ELECTRODE FOR 3 ± 0.5 SECONDS.	NO MECHANICAL BREAKAGE. DEVIATION RELATIVE TO						
9	RESISTANCE TO SOLDERING HEAT TEST (REFLOW SOLDERING)	PLEASE REFER TO THE ATTACHMENT STD-002NP.	INITIAL VALUE: L: WITHIN ± 3.0%						
10	VIBRATION TEST	AMPLITUDE: 1.5mm P-P FREQUENCY: 10 ~ 55 ~ 10 Hz (1 MINUTE PER CYCLE) DURATION: 2 HOURS IN EACH OF X, Y, Z, AXIS. (TOTAL 6 HOURS)	DEVIATION RELATIVE TO INITIAL VALUE: L: WITHIN ± 2.0%						
11	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)							
12	LOW TEMPERATURE STORAGE TEST	TEMPERATURE: -40°C ± 3°C DURATION: 1000 ± 12 HOURS RECOVERY: 1 TO 2 HOURS RECOVERY UNDER STANDARD CONDITION.							
13	HIGH TEMPERATURE STORAGE TEST	TEMPERATURE: 125°C ± 2°C DURATION: 1000 ± 12 HOURS RECOVERY: 1 TO 2 HOURS RECOVERY UNDER STANDARD CONDITION.							
14	HUMIDITY TEST	TEMPERATURE: 60°C ± 2°C HUMIDITY: 90% ~ 95% RH DURATION: 1000 ± 12 HOURS RECOVERY: 1 TO 2 HOURS RECOVERY UNDER STANDARD CONDITION.	* NO MECHANICAL BREAKAGE * DEVIATION RELATIVE TO INITIAL VALUE:						
15	HUMIDITY LOAD LIFE TEST	TEMPERATURE: 60°C ± 2°C HUMIDITY: 90% ~ 95% RH LOAD CONDITION: RATED CURRENT DURATION: 1000 ± 12 HOURS RECOVERY: 1 TO 2 HOURS RECOVERY UNDER STANDARD CONDITION.	L: WITHIN ± 5.0% Q: WITHIN ± 20%						
16	THERMAL SHOCK	100 CONTINUOUS CYCLES SHOWN AS BELOW <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>TEMPERATURE</th> <th>DURATION</th> </tr> </thead> <tbody> <tr> <td>-40°C ± 3°C</td> <td>30 MINUTES</td> </tr> <tr> <td>125°C ± 2°C</td> <td>30 MINUTES</td> </tr> </tbody> </table> RECOVERY: 1 TO 2 HOURS RECOVERY UNDER STANDARD CONDITION.	TEMPERATURE	DURATION	-40°C ± 3°C	30 MINUTES	125°C ± 2°C	30 MINUTES	
TEMPERATURE	DURATION								
-40°C ± 3°C	30 MINUTES								
125°C ± 2°C	30 MINUTES								

5. PACKING

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

- KB-CTR050; KB-CTR634; KB-CTR834;
 SPECIAL FOR CUSTOMER KB -

6. REMARK

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

RoHS Compliant
環保品

REMARK	SPEC.No. 5/5 H500-0421
--------	----------------------------------