

# SPECIFICATION OF FLCA SERIES

## FEATURES

1. High resistance to heat and humidity.
2. Resistance to mechanical shocks and pressure.
3. Accurate dimensions for automatically surface mounted.



## APPLICATIONS

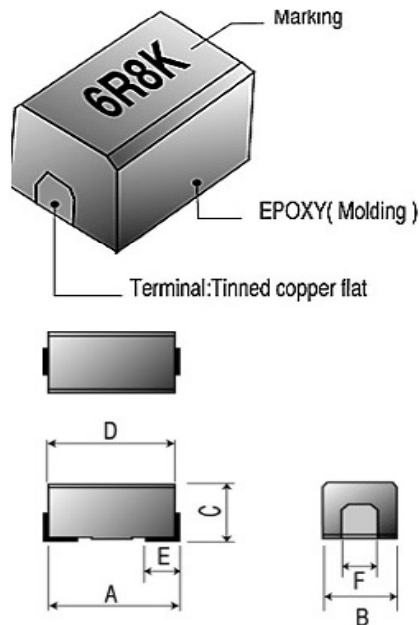
1. Computer products. (Hard Disk , Floppy Disks..Etc.)
2. Communication products. (like : Cordless Phone..Etc.)
3. Modems , OA products , TV set , VCRs..Etc.
4. Countermeasures for complying with CE , FCC VDE or VCCI radiated emissions.



## ORDERING CODE

**FLCA - 453232 - R12 M T**  
 (1) (2) (3) (4)(5)

- (1) PRODUCT SERIES CODE
- (2) SIZE CODE
- (3) INDUCTANCE
- (4) INDUCTANCE TOLERANCE  
 ( J : ±5%, K : ±10%, M : ±20%)
- (5) TAPING



## SHAPE & DIMENSIONS

UNIT:mm (inch)

SIZE CODE	A	B	C	D	E	F
FLCA-322522 (1210)	3.2±0.3 (0.126±0.012)	2.5±0.2 (0.098±0.008)	2.2±0.2 (0.087±0.008)	2.9±0.2 (0.114±0.008)	0.6 (0.024)	1.0 (0.040)
FLCA-453232 (1812)	4.5±0.3 (0.177±0.012)	3.2±0.2 (0.126±0.008)	3.2±0.2 (0.126±0.008)	4.2±0.2 (0.165±0.008)	1.0 (0.040)	1.2 (0.047)

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# WOUND CHIP INDUCTORS → FLCA-453232 SERIES

## ELECTRICAL CHARACTERISTICS

ORDERING CODE	Inductance	Q	Test Frequency	Self Resonant Frequency	DC Resistance	IDC
	( $\mu$ H)	Min	(MHz)	(MHz)TYP	( $\Omega$ )max	(mA)max
FLCA-453232-R10□T	0.10	35	25.2	300	0.18	800
FLCA-453232-R12□T	0.12	35	25.2	280	0.20	770
FLCA-453232-R15□T	0.15	35	25.2	250	0.22	730
FLCA-453232-R18□T	0.18	35	25.2	220	0.24	700
FLCA-453232-R22□T	0.22	40	25.2	200	0.25	665
FLCA-453232-R27□T	0.27	40	25.2	180	0.26	635
FLCA-453232-R33□T	0.33	40	25.2	165	0.28	605
FLCA-453232-R39□T	0.39	40	25.2	150	0.30	575
FLCA-453232-R47□T	0.47	40	25.2	145	0.32	545
FLCA-453232-R56□T	0.56	40	25.2	140	0.36	520
FLCA-453232-R68□T	0.68	40	25.2	135	0.40	500
FLCA-453232-R82□T	0.82	40	25.2	130	0.45	475
FLCA-453232-1R0□T	1.0	50	7.96	100	0.50	450
FLCA-453232-1R2□T	1.2	50	7.96	80	0.55	430
FLCA-453232-1R5□T	1.5	50	7.96	70	0.60	410
FLCA-453232-1R8□T	1.8	50	7.96	60	0.65	390
FLCA-453232-2R2□T	2.2	50	7.96	55	0.70	380
FLCA-453232-2R7□T	2.7	50	7.96	50	0.75	370
FLCA-453232-3R3□T	3.3	50	7.96	45	0.80	355
FLCA-453232-3R9□T	3.9	50	7.96	40	0.90	330
FLCA-453232-4R7□T	4.7	50	7.96	35	1.00	315
FLCA-453232-5R6□T	5.6	50	7.96	33	1.10	300
FLCA-453232-6R8□T	6.8	50	7.96	27	1.20	285
FLCA-453232-8R2□T	8.2	50	7.96	25	1.40	270
FLCA-453232-100□T	10	50	2.52	20	1.60	250
FLCA-453232-120□T	12	50	2.52	18	2.00	225
FLCA-453232-150□T	15	50	2.52	17	2.50	200
FLCA-453232-180□T	18	50	2.52	15	2.80	190
FLCA-453232-220□T	22	50	2.52	13	3.20	180
FLCA-453232-270□T	27	50	2.52	12	3.60	170
FLCA-453232-330□T	33	50	2.52	11	4.00	160
FLCA-453232-390□T	39	50	2.52	10	4.50	150
FLCA-453232-470□T	47	50	2.52	10	5.00	140
FLCA-453232-560□T	56	50	2.52	9	5.50	135
FLCA-453232-680□T	68	50	2.52	9	6.00	130
FLCA-453232-820□T	82	50	2.52	8	7.00	120
FLCA-453232-101□T	100	40	0.796	8	8.00	110
FLCA-453232-121□T	120	40	0.796	6	8.00	110
FLCA-453232-151□T	150	40	0.796	5	9.00	105
FLCA-453232-181□T	180	40	0.796	5	9.50	102
FLCA-453232-221□T	220	40	0.796	4	10.00	100
FLCA-453232-271□T	270	40	0.796	4	12.00	92
FLCA-453232-331□T	330	40	0.796	3.5	14.00	85
FLCA-453232-391□T	390	40	0.796	3	18.00	80
FLCA-453232-471□T	470	40	0.796	3	26.00	62
FLCA-453232-561□T	560	30	0.796	3	30.00	50
FLCA-453232-681□T	680	30	0.796	3	30.00	50
FLCA-453232-821□T	820	30	0.796	2.5	35.00	30
FLCA-453232-102□T	1000	20	0.252	2.5	40.00	30

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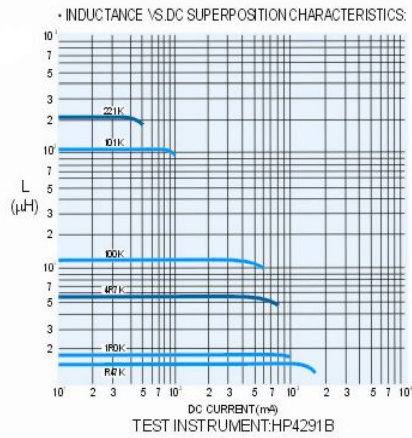
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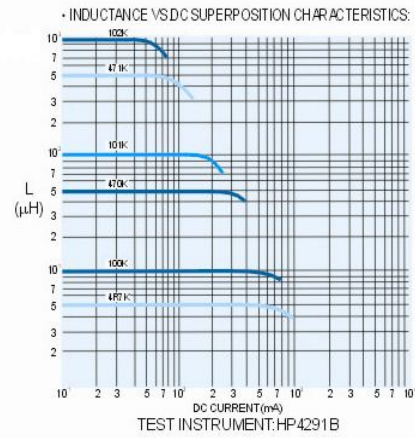
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# WOUND CHIP INDUCTORS → FLCA SERIES

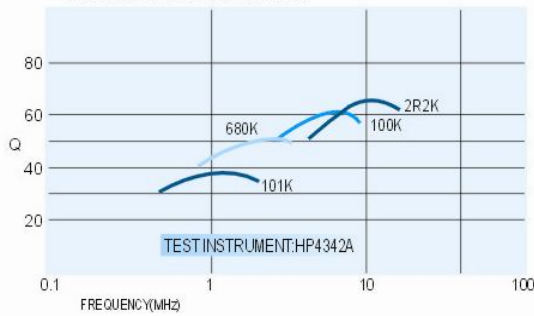
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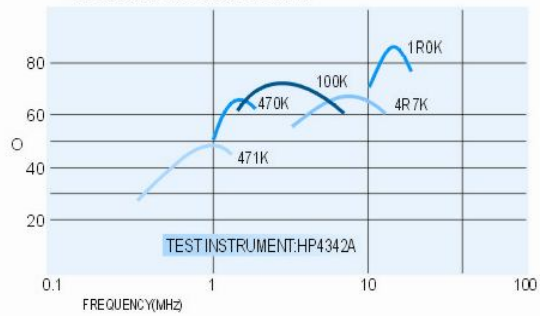
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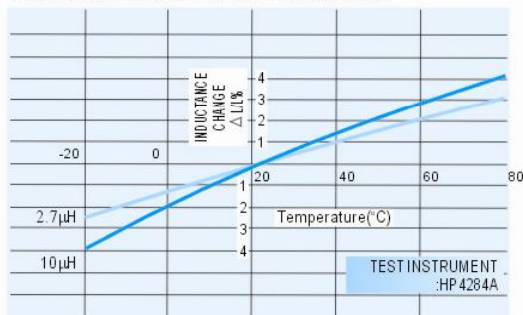
### • Q VS. FREQUENCY RESPONSE



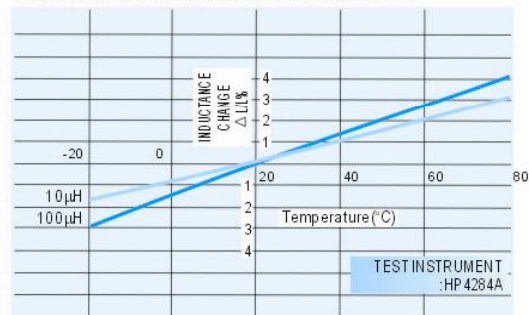
### • Q VS. FREQUENCY RESPONSE



### • INDUCTANCE vs. TEMPERATURE RESPONSE



### • INDUCTANCE vs. TEMPERATURE RESPONSE



1. □ Means the inductance tolerance, J±5% K±10% M±20%
2. & Inductance drop less than 10% typ.
3. Operating temperature range : -40°C ~ +125°C (including self-heating)

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