

THROUGH-HOLE RADIAL POWER CHOKES LCH0605 SERIES

FEATURES:

- Wire-wound Structure
- Excellent heat resistance
- Excellent environmental characteristics
- High reliability

COMMON APPLICATIONS:

- Power Supplies
- SCR and TRIAC Controls
- RFI Suppression
- Filters
- Switching Regulators



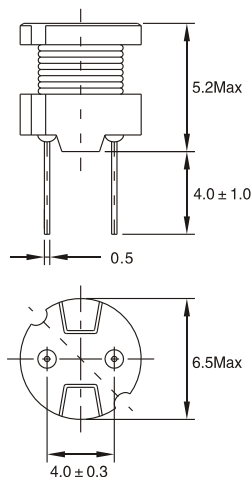
ELECTRICAL CHARACTERISTICS:

Part Number LCH0605-	Marking	Inductance L(μH) @1.0kHz,0.1V	DCR(Ω)	IDC(A)
220M	220	22	0.18	0.90
270M	270	27	0.21	0.81
330M	330	33	0.27	0.74
390M	390	39	0.29	0.68
470M	470	47	0.34	0.62
560M	560	56	0.42	0.57
680M	680	68	0.48	0.51
820M	820	82	0.55	0.47
101K	101	100	0.68	0.42
121K	121	120	0.77	0.39
151K	151	150	0.95	0.35
181K	181	180	1.15	0.32
221K	221	220	1.30	0.29
271K	271	270	1.55	0.26
331K	331	330	2.18	0.23
391K	391	390	2.47	0.21
471K	471	470	2.92	0.20
561K	561	560	3.97	0.18
681K	681	680	4.57	0.16
821K	821	820	5.28	0.15
102K	102	1000	7.06	0.13

Note:1. K= ± 10%,M= ± 20%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimension: mm



- IDC Max:Determined when superimposed
- Testing: (Equivalent acceptable)
Inductance:HP4284A 1kHz 0.1V
RDC:QuadTech 1880 Milliohm-meter
IDC Max : Lowers inductance by 10%
- Operating temperature: -40℃ to +105℃
- Storage Temperature: -40℃ to +105℃
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260℃ for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note:All specifications subject to change without notice.

THROUGH-HOLE RADIAL POWER CHOKES LCH0606 SERIES

FEATURES:

- Wire-wound Structure
- Excellent heat resistance
- Excellent environmental characteristics
- High reliability

COMMON APPLICATIONS:

- Power Supplies
- SCR and TRIAC Controls
- RFI Suppression
- Filters
- Switching Regulators



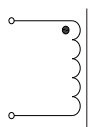
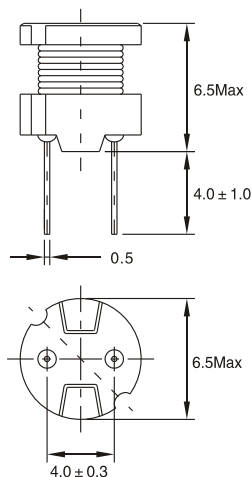
ELECTRICAL CHARACTERISTICS:

Part Number LCH0606-	Marking	Inductance L (μH) @ 1.0KHz, 0.1V	DCR (Ω)	IDC (A)
220M	220	22	0.11	1.27
270M	270	27	0.14	1.14
330M	330	33	0.17	1.03
390M	390	39	0.19	0.95
470M	470	47	0.23	0.87
560M	560	56	0.26	0.80
680M	680	68	0.28	0.72
820M	820	82	0.39	0.66
101K	101	100	0.43	0.59
121K	121	120	0.54	0.54
151K	151	150	0.64	0.48
181K	181	180	0.74	0.44
221K	221	220	0.96	0.40
271K	271	270	1.12	0.36
331K	331	330	1.48	0.33
391K	391	390	1.66	0.30
471K	471	470	1.91	0.28
561K	561	560	2.31	0.25
681K	681	680	2.67	0.23
821K	821	820	3.10	0.21
102K	102	1000	4.45	0.19

Note: 1. K = ± 10%, M = ± 20%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Dimension: mm



- IDC Max: Determined when superimposed
- Testing: (Equivalent acceptable)
Inductance: HP4284A 1kHz 0.1V
RDC: QuadTech 1880 Milliohm meter
IDC Max : Lowers inductance by 10%
- Operating temperature: -40°C to +105°C
- Storage Temperature: -40°C to +105°C
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat: 260°C for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note: All specifications subject to change without notice.

THROUGH-HOLE RADIAL POWER CHOKES LCH0805 SERIES

FEATURES:

- Wire-wound Structure
- Excellent heat resistance
- Excellent environmental characteristics
- High reliability

COMMON APPLICATIONS:

- Power Supplies
- SCR and TRIAC Controls
- RFI Suppression
- Filters
- Switching Regulators



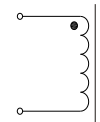
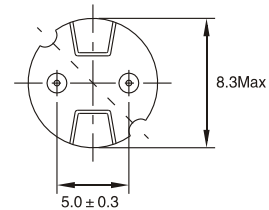
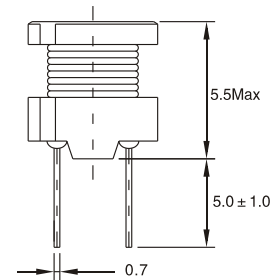
ELECTRICAL CHARACTERISTICS:

Part Number LCH0805-	Marking	Inductance L (μH) @ 1.0KHz, 0.1V	DCR (Ω)	IDC(A)
100M	100	10	0.07	2.50
120M	120	12	0.08	2.40
150M	150	15	0.09	2.10
180M	180	18	0.10	2.00
220M	220	22	0.12	1.70
270M	270	27	0.14	1.60
330M	330	33	0.17	1.40
390M	390	39	0.21	1.30
470M	470	47	0.24	1.20
560M	560	56	0.31	1.10
680M	680	68	0.34	1.00
820M	820	82	0.40	0.93
101K	101	100	0.52	0.81
121K	121	120	0.59	0.76
151K	151	150	0.71	0.67
181K	181	180	0.89	0.62
221K	221	220	1.04	0.54
271K	271	270	1.28	0.49
331K	331	330	1.47	0.44
391K	391	390	1.67	0.41
471K	471	470	1.95	0.38
561K	561	560	2.83	0.35
681K	681	680	3.25	0.32
821K	821	820	3.82	0.31
102K	102	1000	5.28	0.25
122K	122	1200	6.03	0.23
152K	152	1500	7.15	0.21
182K	182	1800	8.26	0.20
222K	222	2200	11.1	0.18
272K	272	2700	13.1	0.16
332K	332	3300	15.9	0.14
392K	392	3900	18.0	0.13
472K	472	4700	23.9	0.12
562K	562	5600	26.8	0.11
682K	682	6800	31.7	0.098
822K	822	8200	46.5	0.088
103K	103	10000	55.7	0.081

Note: 1. K= ± 10%, M= ± 20%

PHYSICAL CHARACTERISTICS:

Dimension: mm



- IDC Max: Determined when superimposed
- Testing: (Equivalent acceptable)
Inductance: HP4284A 1kHz 0.1V
RDC: QuadTech 1880 Milliohm meter
IDC Max : Lowers inductance by 10%
- Operating temperature: -40°C to +105°C
- Storage Temperature: -40°C to +105°C
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat: 260°C for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note: All specifications subject to change without notice.

THROUGH-HOLE RADIAL POWER CHOKES LCH0807 SERIES

FEATURES:

- Wire-wound Structure
- Excellent heat resistance
- Excellent environmental characteristics
- High reliability

COMMON APPLICATIONS:

- Power Supplies
- SCR and TRIAC Controls
- RFI Suppression
- Filters
- Switching Regulators



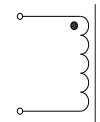
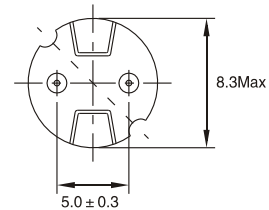
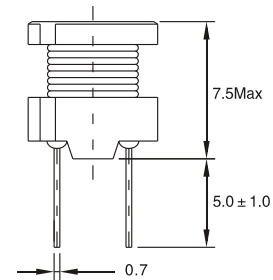
ELECTRICAL CHARACTERISTICS:

Part Number LCH0807-	Marking	Inductance L (μH) @ 1.0KHz, 0.1V	DCR (Ω)	IDC(A)
100M	100	10	0.05	2.90
120M	120	12	0.06	2.50
150M	150	15	0.07	2.20
180M	180	18	0.08	1.90
220M	220	22	0.09	1.80
270M	270	27	0.11	1.70
330M	330	33	0.13	1.50
390M	390	39	0.14	1.30
470M	470	47	0.15	1.30
560M	560	56	0.18	1.20
680M	680	68	0.20	1.10
820M	820	82	0.24	1.00
101K	101	100	0.28	0.89
121K	121	120	0.36	0.81
151K	151	150	0.42	0.72
181K	181	180	0.57	0.66
221K	221	220	0.63	0.57
271K	271	270	0.88	0.51
331K	331	330	1.05	0.46
391K	391	390	1.17	0.44
471K	471	470	1.34	0.41
561K	561	560	1.72	0.36
681K	681	680	1.96	0.33
821K	821	820	2.56	0.30
102K	102	1000	2.94	0.27
122K	122	1200	4.04	0.24
152K	152	1500	4.70	0.22
182K	182	1800	5.05	0.20
222K	222	2200	6.25	0.18
272K	272	2700	8.72	0.16
332K	332	3300	10.6	0.15
392K	392	3900	14.2	0.14
472K	472	4700	16.7	0.12
562K	562	5600	18.7	0.11
682K	682	6800	21.8	0.10
822K	822	8200	28.7	0.093
103K	103	10000	33.0	0.084

Note: 1. K= ± 10%, M= ± 20%

PHYSICAL CHARACTERISTICS:

Dimension: mm



- IDC Max: Determined when superimposed
- Testing: (Equivalent acceptable)
Inductance: HP4284A 1kHz 0.1V
RDC: QuadTech 1880 Milliohm meter
IDC Max : Lowers inductance by 10%
- Operating temperature: -40°C to +105°C
- Storage Temperature: -40°C to +105°C
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat: 260°C for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note: All specifications subject to change without notice.

THROUGH-HOLE RADIAL POWER CHOKES LCH0809 SERIES

FEATURES:

- Wire-wound Structure
- Excellent heat resistance
- Excellent environmental characteristics
- High reliability

COMMON APPLICATIONS:

- Power Supplies
- SCR and TRIAC Controls
- RFI Suppression
- Filters
- Switching Regulators



ELECTRICAL CHARACTERISTICS:

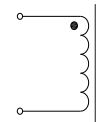
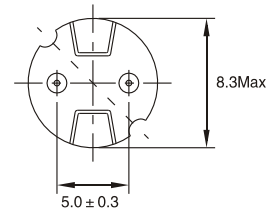
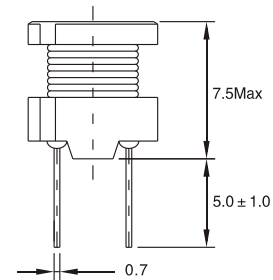
Part Number LCH0809-	Marking	Inductance L (μH) @ 1.0KHz, 0.1V	DCR (Ω)	IDC(A)
100M	100	10	0.04	2.60
120M	120	12	0.04	2.60
150M	150	15	0.05	2.10
180M	180	18	0.05	2.00
220M	220	22	0.06	1.70
270M	270	27	0.06	1.60
330M	330	33	0.07	1.40
390M	390	39	0.08	1.40
470M	470	47	0.10	1.30
560M	560	56	0.11	1.20
680M	680	68	0.14	1.10
820M	820	82	0.16	1.00
101K	101	100	0.19	0.90
121K	121	120	0.22	0.82
151K	151	150	0.27	0.74
181K	181	180	0.31	0.71
221K	221	220	0.38	0.64
271K	271	270	0.53	0.57
331K	331	330	0.61	0.51
391K	391	390	0.69	0.48
471K	471	470	0.89	0.43
561K	561	560	1.01	0.40
681K	681	680	1.18	0.35
821K	821	820	1.57	0.32
102K	102	1000	1.84	0.30
122K	122	1200	2.10	0.27
152K	152	1500	2.80	0.23
182K	182	1800	3.21	0.21
222K	222	2200	4.21	0.19
272K	272	2700	4.94	0.17
332K	332	3300	6.16	0.15
392K	392	3900	6.84	0.14
472K	472	4700	7.89	0.13
562K	562	5600	11.5	0.12
682K	682	6800	13.2	0.11
822K	822	8200	15.2	0.10
103K	103	10000	22.0	0.089
123K	123	12000	25.0	0.073
153K	153	15000	29.1	0.068
183K	183	18000	38.9	0.066
223K	223	22000	44.9	0.059
273K	273	27000	55.7	0.052
333K	333	33000	64.2	0.048
393K	393	39000	74.2	0.042
473K	473	47000	96.4	0.038

Note: 1. K= ± 10%, M= ± 20%

Note: All specifications subject to change without notice.

PHYSICAL CHARACTERISTICS:

Dimension: mm



- IDC Max: Determined when superimposed
- Testing: (Equivalent acceptable)
Inductance: HP4284A 1kHz 0.1V
RDC: QuadTech 1880 Milliohm meter
IDC Max : Lowers inductance by 10%
- Operating temperature: -40°C to +105°C
- Storage Temperature: -40°C to +105°C
- Solder methods: Vapor Phase, Infrared Reflow
- Resistance to soldering heat: 260°C for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

RADIAL LEADED WIRE WOUND INDUCTOR

LCH1010 SERIES



FEATURES:

- Low cost, high current power inductors
- 30 inductance values; 68 μ H to 18mH
- Flame retardant polyolefin wrap to protect the winding.
- Environmental RoHS compliant, halogen free

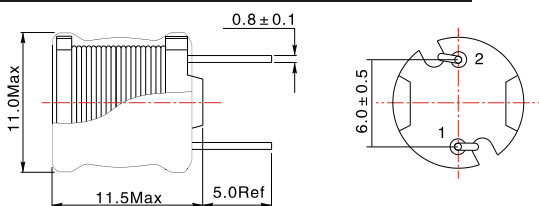
APPLICATIONS:

- Signal filtering, EMI and power supply filter
- DC/DC converters/switching power supplies for small and medium voltage
- Power supply for LED

ELECTRICAL CHARACTERISTICS:

Part No.	Inductance $\pm 10\%$ (μ H)	DCR(Ω) Max.	SRF typ. (MHz)	Isat(A)			Irms(A)	
				10% drop	20% drop	30% drop	20°C rise	40°C rise
LCH1010-680K	68	0.115	5.6	3.2	3.67	3.94	1.8	2.4
LCH1010-820K	82	0.125	5.4	2.95	3.4	3.67	1.7	2.3
LCH1010-101K	100	0.15	4.7	2.65	3.03	3.27	1.6	2.15
LCH1010-121K	120	0.195	4.3	2.4	2.78	2.98	1.4	1.9
LCH1010-151K	150	0.23	4.0	2.2	2.5	2.7	1.3	1.75
LCH1010-181K	180	0.295	3.4	2.0	2.28	2.44	1.1	1.55
LCH1010-221K	220	0.335	3.1	1.85	2.08	2.25	1.05	1.45
LCH1010-271K	270	0.44	2.8	1.65	1.88	2.04	0.9	1.27
LCH1010-331K	330	0.5	2.6	1.5	1.72	1.84	0.85	1.18
LCH1010-391K	390	0.56	2.4	1.4	1.6	1.72	0.82	1.12
LCH1010-471K	470	0.725	2.1	1.25	1.42	1.53	0.72	1.0
LCH1010-561K	560	0.805	1.9	1.15	1.32	1.42	0.68	0.92
LCH1010-681K	680	1.11	1.7	1.05	1.18	1.26	0.58	0.78
LCH1010-821K	820	1.2	1.6	0.95	1.1	1.18	0.54	0.74
LCH1010-102K	1000	1.4	1.5	0.9	1.0	1.07	0.5	0.7
LCH1010-122K	1200	1.85	1.3	0.75	0.9	0.96	0.43	0.61
LCH1010-152K	1500	2.05	1.2	0.7	0.81	0.86	0.41	0.58
LCH1010-182K	1800	2.75	1.1	0.64	0.71	0.77	0.36	0.5
LCH1010-222K	2200	3.2	0.99	0.58	0.65	0.7	0.33	0.47
LCH1010-272K	2700	4.2	0.82	0.53	0.59	0.63	0.29	0.41
LCH1010-332K	3300	4.75	0.75	0.48	0.53	0.57	0.28	0.38
LCH1010-392K	3900	5.3	0.71	0.45	0.49	0.53	0.26	0.36
LCH1010-472K	4700	6.95	0.61	0.41	0.45	0.48	0.22	0.32
LCH1010-562K	5600	7.75	0.57	0.37	0.41	0.44	0.21	0.3
LCH1010-682K	6800	10	0.49	0.34	0.38	0.4	0.8	0.26
LCH1010-822K	8200	11	0.46	0.32	0.35	0.37	0.17	0.245
LCH1010-103K	10000	15.5	0.43	0.29	0.31	0.33	0.15	0.21
LCH1010-123K	12000	17.5	0.41	0.25	0.28	0.3	0.135	0.18
LCH1010-153K	15000	19.5	0.38	0.23	0.26	0.28	0.13	0.17
LCH1010-183K	18000	25	0.33	0.21	0.23	0.24	0.115	0.15

PHYSICAL CHARACTERISTICS:



Note: All specifications subject to change without notice.

NOTES:

- Inductance tested at 100 kHz, 0.1Vrms, 0 Adc on an Agilent/HP 4284A LCR-meter or equivalent.
- SRF measured using Agilent/HP 4191A or equivalent.
- DC current at 25°C that causes the specified inductance drop from its value without current.
- Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.
- Ambient temperature -40°C to +85°C with (40°C rise) Irms current.
- Maximum part temperature +125°C (ambient + temp rise).
- Storage temperature Component: -40°C to +125°C.
- Tray or tape packaging: -40°C to +80°C
- Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)



POWER INDUCTORS

LCH1006-4W SERIES

DESCRIPTION:

- Ferrite drum core construction
- Magnetically unshielded
- LxWxH: 10.5x10.5x6.5mm Max
- RoHS-compatible

APPLICATIONS:

- Ideally used in Printers, LCD TV, DVD, Copy Machine, Mainboard of the compounding machines etc.
- As DC-DC Converter inductors.

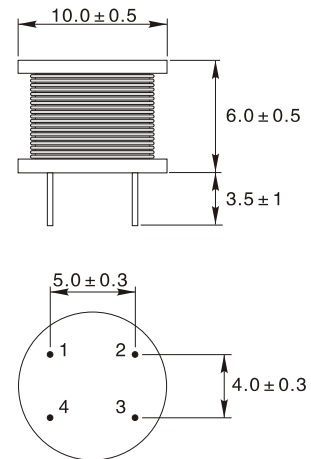
PACKAGING:

- Box packaging

ELECTRICAL CHARACTERISTICS:

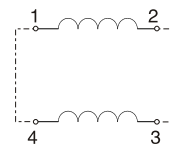
Part Number	Inductance (uH)	DCR (mΩ)Max	Rated current (A)Max
LCH1006-4W-2R2M	2.2 ± 20%	8.5	7.9
LCH1006-4W-2R7M	2.7 ± 20%	9.6	7.2
LCH1006-4W-3R7M	3.7 ± 20%	10.9	6.3
LCH1006-4W-4R7M	4.7 ± 20%	11.7	5.7
LCH1006-4W-6R2M	6.2 ± 20%	15.3	5.3
LCH1006-4W-8R2M	8.2 ± 20%	17.0	5.0
LCH1006-4W-100M	10 ± 20%	27.0	4.5
LCH1006-4W-120M	12 ± 20%	31.0	4.1
LCH1006-4W-150M	15 ± 20%	36.0	3.7
LCH1006-4W-180M	18 ± 20%	49.0	3.4
LCH1006-4W-220M	22 ± 20%	55.0	3.1
LCH1006-4W-270M	27 ± 20%	62.0	2.8
LCH1006-4W-330M	33 ± 10%	79.0	2.5
LCH1006-4W-390M	39 ± 10%	87.0	2.3
LCH1006-4W-470M	47 ± 10%	99.0	2.1
LCH1006-4W-560K	56 ± 10%	130	1.9
LCH1006-4W-680K	68 ± 10%	140	1.7
LCH1006-4W-820K	82 ± 10%	160	1.6
LCH1006-4W-101K	100 ± 10%	210	1.4
LCH1006-4W-121K	120 ± 10%	240	1.3
LCH1006-4W-151K	150 ± 10%	320	1.2
LCH1006-4W-181K	180 ± 10%	350	1.1
LCH1006-4W-221K	220 ± 10%	450	0.96
LCH1006-4W-271K	270 ± 10%	610	0.87
LCH1006-4W-331K	330 ± 10%	690	0.79
LCH1006-4W-391K	390 ± 10%	780	0.72
LCH1006-4W-471K	470 ± 10%	1000	0.66
LCH1006-4W-561K	560 ± 10%	1200	0.60
LCH1006-4W-681K	680 ± 10%	1400	0.55
LCH1006-4W-821K	820 ± 10%	1800	0.50
LCH1006-4W-102K	1000 ± 10%	2100	0.45

PHYSICAL CHARACTERISTICS

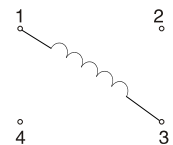


WINDING

2.2uH ~ 15uH



18uH ~ 1.0mH



TECHNICAL INFORMATION

- Inductance measuring condition:
2.2uH~8.2uH @ 7.96MHz
10uH~1.0mH @ 1KHz
- Inductor Testing: HP4284A (Equivalent acceptable)
DCR: WK3260B
- The rated current indicates the lower value of current when the inductance is 10% lower than its initial value at D.C. superposition or the temperature of coil rises 40°C with D.C. Current passing. (Ta = 20°C)
- Operating Temperature: -40°C to +100°C (including coil's self temperature rise)
- Storage Temperature: -40°C to +100°C
- All specifications subject to change without notice.