

# THROUGH-HOLE RADIAL POWER CHOKES

## LCH SERIES

0605,0606,0805,0807,0809

### FEATURES:

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

### OPTIONS:

- Packaging: Bulk is standard
- Tolerance: 10% is standard, tighter tolerances available

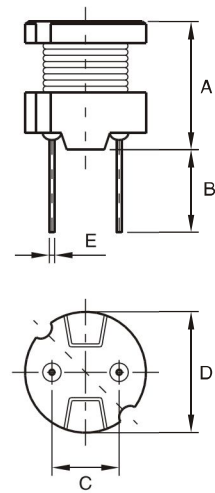
### COMMON APPLICATIONS:

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

### ELECTRICAL CHARACTERISTICS:

### PHYSICAL CHARACTERISTICS:

Part number LCH-xxxx-	Inductance ( $\mu$ H)	DC R( $\Omega$ )Max.					IDC(A)				
		0605	0606	0805	0807	0809	0605	0606	0805	0807	0809
100M	10			0.07	0.05	0.04			2.50	2.90	2.60
120M	12			0.08	0.06	0.04			2.40	2.50	2.60
150M	15			0.09	0.07	0.05			2.10	2.20	2.10
180M	18			0.10	0.08	0.05			2.00	1.90	2.00
220M	22	0.18	0.15	0.12	0.09	0.06	0.90	1.27	1.70	1.80	1.70
270M	27	0.21	0.14	0.14	0.11	0.06	0.81	1.14	1.60	1.70	1.60
330M	33	0.27	0.17	0.17	0.13	0.07	0.74	1.03	1.40	1.50	1.40
390M	39	0.29	0.19	0.21	0.14	0.08	0.68	0.95	1.30	1.30	1.40
470M	47	0.34	0.23	0.24	0.15	0.10	0.62	0.87	1.20	1.30	1.30
560M	56	0.42	0.26	0.27	0.18	0.11	0.57	0.80	1.10	1.20	1.20
680M	68	0.48	0.28	0.34	0.20	0.14	0.51	0.72	1.00	1.10	1.10
820M	82	0.55	0.39	0.40	0.24	0.16	0.47	0.66	0.93	1.00	1.00
101K	100	0.68	0.43	0.52	0.28	0.19	0.42	0.59	0.81	0.89	0.90
121K	120	0.77	0.54	0.59	0.36	0.22	0.39	0.54	0.76	0.81	0.82
151K	150	0.95	0.64	0.71	0.42	0.27	0.35	0.48	0.67	0.72	0.74
181K	180	1.15	0.74	0.89	0.57	0.31	0.32	0.44	0.62	0.66	0.71
221K	220	1.30	0.96	1.04	0.63	0.38	0.28	0.40	0.54	0.57	0.64
271K	270	1.55	1.12	1.28	0.88	0.53	0.26	0.36	0.49	0.51	0.57
331K	330	2.18	1.48	1.47	1.05	0.61	0.23	0.33	0.41	0.46	0.51
391K	390	2.47	1.66	1.67	1.17	0.69	0.21	0.30	0.41	0.44	0.48
471K	470	2.92	1.91	1.95	1.34	0.89	0.20	0.28	0.38	0.41	0.43
561K	560	3.97	2.31	2.83	1.72	1.01	0.18	0.25	0.35	0.36	0.40
681K	680	4.57	2.67	3.25	1.96	1.18	0.16	0.23	0.32	0.33	0.35
821K	820	5.28	3.10	3.82	2.56	1.57	0.15	0.21	0.31	0.30	0.32
102K	1000	7.06	4.45	5.28	2.94	1.84	0.13	0.19	0.25	0.27	0.30
122K	1200			6.03	4.04	2.10			0.23	0.24	0.27
152K	1500			7.15	4.70	2.80			0.21	0.22	0.23
182K	1800			8.26	5.05	3.21			0.20	0.20	0.21
222K	2200			11.1	6.25	4.21			0.18	0.18	0.19
272K	2700			13.1	8.72	4.94			0.16	0.16	0.17
332K	3300			15.9	10.6	6.16			0.14	0.15	0.15
392K	3900			18.0	14.2	6.84			0.13	0.14	0.14
472K	4700			23.9	16.7	7.89			0.12	0.12	0.13
562K	5600			26.8	18.7	11.5			0.11	0.11	0.12
682K	6800			31.7	21.8	13.2			0.098	0.10	0.11
822K	8200			46.5	28.7	15.2			0.088	0.093	0.10
103K	10000			55.7	33.0	22.0			0.081	0.084	0.089
123K	12000					25.0					0.073
153K	15000					29.1					0.068
183K	18000					38.9					0.066
223K	22000					44.9					0.059
273K	27000					55.7					0.052
333K	33000					64.2					0.048
393K	39000					74.2					0.042
473K	47000					96.4					0.038



Dimension: mm

Part Number	A	B	C	D	E
LCH0605	5.2Max	4.061.0	4.060.3	6.5Max	0.5
LCH0606	6.5Max	4.061.0	4.060.3	6.5Max	0.5
LCH0805	5.5Max	5.061.0	5.060.3	8.3Max	0.7
LCH0807	7.5Max	5.061.0	5.060.3	8.3Max	0.7
LCH0809	9.5Max	5.061.0	5.060.3	8.3Max	0.7

### TECHNICAL INFORMATION:

- 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.

Note: 1. K =  $\pm$  10%, M =  $\pm$  20%