

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

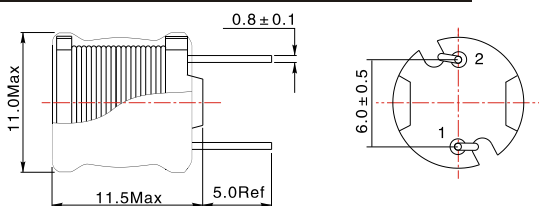
APPLICATIONS:

- 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)