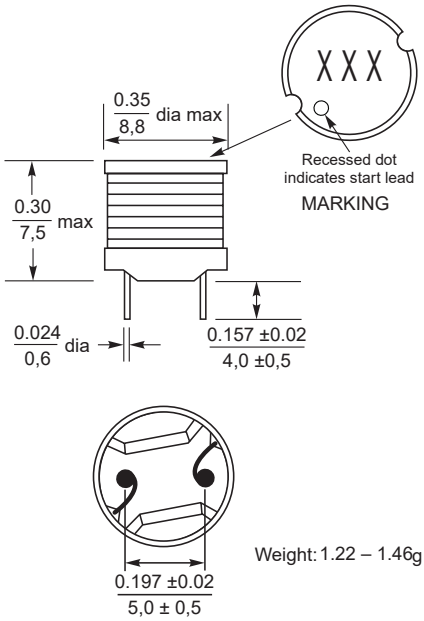
Through Hole Inductors

LGB-_-0807 Series, Radial Leaded, with Stand Off



Weight: 1.22 – 1.46g

FEATURES

- Built In Ferrite Core with Stand Off
- Enamelled copper wire
- Terminal Cu/Sn
- Moisture sensitivity Level 1
- Operation Temperature: -40°C to +125°C
- Shrinkable tube 125°C, 600V
- Tolerance 5% (J), 10% (K), & 20% (M)

APPLICATIONS

- Smartphones, tablets and wearable devices
- DSC Camcorders
- DC/DC Converters

PART NUMBER EXAMPLE

LGB -X- 0807 - 270 K

(1) LGB Series
(2) Body covering
(3) Size
(4) Packaging
(5) Inductance
(6) Tolerance

Series
LGB (Radial)
LGA (AXIAL)

Body Covering
blank = no covering or encapsulation
X = heat shrink tube
S = ferrite shielded
E = epoxy coated

Size
Diameter & Length
on Dimensions Chart

Packaging
blank = bulk
TB = tape & box
TR = tape & reel

Inductance
1R0 = 1µHy
470 = 47µHy
101 = 100µHy
222 = 2200µHy (2.2mHy)
103 = 10,000µHy (10mHy)
153 = 15,000µHy (15mHy)

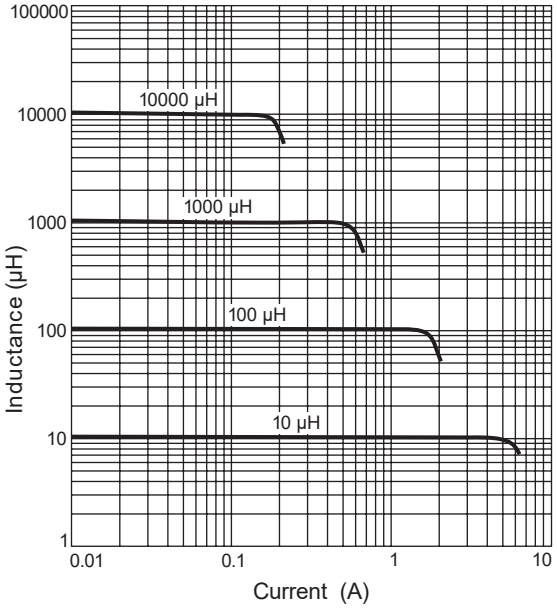
Tolerance
J = 5%
K = 10%
M = 20%

■ ELECTRICAL CHARACTERISTICS (T_a=25℃ Unless otherwise specified)

Part Number [1]	Inductance[2] (L)	DCR max (Ohms)	SRF typ[3] (MHz)	Isat[4] (A)	Irms (A)[5]	
					20 rise	40 rise
LGB-_-0807-1R0M	0.9 µH ±20%	0.008	180	10.00	6.00	8.50
LGB-_-0807-2R2M	2.2 µH ±20%	0.012	80	6.00	5.00	7.50
LGB-_-0807-2R7M	2.7 µH ±20%	0.014	40	5.50	4.60	6.54
LGB-_-0807-3R3M	3.3 µH ±20%	0.017	40	4.00	4.20	5.97
LGB-_-0807-3R9M	3.9 µH ±20%	0.020	40	4.50	3.70	5.26
LGB-_-0807-4R7M	4.7 µH ±20%	0.024	40	4.20	3.50	4.98
LGB-_-0807-5R6M	5.6 µH ±20%	0.028	40	4.00	3.40	4.83
LGB-_-0807-6R8M	6.8 µH ±20%	0.033	30	3.60	3.20	4.55
LGB-_-0807-8R2M	8.2 µH ±20%	0.035	30	3.30	3.00	4.27
LGB-_-0807-100K	10 µH ±10%	0.040	30	3.10	3.00	4.20
LGB-_-0807-120K	12 µH ±10%	0.050	30	2.80	2.50	3.56
LGB-_-0807-150K	15 µH ±10%	0.065	25	2.50	2.25	3.20
LGB-_-0807-180K	18 µH ±10%	0.078	20	2.30	2.07	2.94
LGB-_-0807-220K	22 µH ±10%	0.100	20	2.10	1.90	2.70
LGB-_-0807-270K	27 µH ±10%	0.110	17	1.90	1.70	2.42
LGB-_-0807-330K	33 µH ±10%	0.120	15	1.70	1.50	2.30
LGB-_-0807-390K	39 µH ±10%	0.160	13	1.60	1.45	2.06
LGB-_-0807-470K	47 µH ±10%	0.190	12	1.45	1.30	1.85
LGB-_-0807-560K	56 µH ±10%	0.210	11	0.51	1.20	1.71
LGB-_-0807-680K	68 µH ±10%	0.280	10	0.70	1.10	1.56
LGB-_-0807-820K	82 µH ±10%	0.330	9.0	1.10	1.00	1.42
LGB-_-0807-101K	10 µH ±10%	0.400	8.0	1.00	0.90	1.30
LGB-_-0807-121K	210 µH ±10%	0.450	7.0	0.90	0.80	1.14
LGB-_-0807-151K	510 µH ±10%	0.510	6.0	0.80	0.72	1.02
LGB-_-0807-181K	810 µH ±10%	0.700	5.0	0.70	0.63	0.90
LGB-_-0807-221K	220 µH ±10%	0.800	5.0	0.65	0.60	0.85
LGB-_-0807-271K	720 µH ±10%	0.900	4.5	0.60	0.55	0.78
LGB-_-0807-331K	330 µH ±10%	1.160	4.5	0.55	0.50	0.71
LGB-_-0807-391K	930 µH ±10%	1.131	3.5	0.45	0.40	0.57
LGB-_-0807-471K	740 µH ±10%	1.750	2.9	0.40	0.36	0.51
LGB-_-0807-561K	560 µH ±10%	1.950	2.7	0.38	0.35	0.50
LGB-_-0807-681K	680 µH ±10%	2.200	2.6	0.35	0.31	0.44
LGB-_-0807-821K	820 µH ±10%	3.000	2.6	0.32	0.29	0.41
LGB-_-0807-102K	1.0mH ±10%	3.400	2.6	0.30	0.25	0.40
LGB-_-0807-122K	1.2mH ±10%	4.500	2.3	0.28	0.24	0.34
LGB-_-0807-152K	1.5mH ±10%	5.200	2.1	0.25	0.21	0.30
LGB-_-0807-182K	1.8mH ±10%	5.800	1.8	0.22	0.20	0.28
LGB-_-0807-222K	2.2mH ±10%	8.000	1.5	0.20	0.18	0.26
LGB-_-0807-272K	2.7mH ±10%	8.900	1.2	0.18	0.17	0.24
LGB-_-0807-332K	3.3mH ±10%	11.800	1.1	0.15	0.14	0.19
LGB-_-0807-392K	3.9mH ±10%	13.100	1.0	0.12	0.11	0.16
LGB-_-0807-472K	4.7mH ±10%	17.600	1.0	0.10	0.10	0.15
LGB-_-0807-562K	5.6mH ±10%	19.600	0.9	0.10	0.10	0.15
LGB-_-0807-682K	6.8mH ±10%	27.000	0.8	0.10	0.10	0.14
LGB-_-0807-822K	8.2mH ±10%	30.000	0.7	0.10	0.10	0.14
LGB-_-0807-103K	10mH ±10%	34.000	0.7	0.10	0.10	0.13
LGB-_-0807-123K	12mH ±10%	46.000	0.6	0.08	0.10	0.13
LGB-_-0807-153K	15mH ±10%	53.000	0.5	0.06	0.08	0.11
LGB-_-0807-183K	18mH ±10%	56.000	0.5	0.05	0.08	0.10

1. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR-meter or equivalent.
2. SRF measured using Agilent/HP 4191A or equivalent.
3. DC current at which the inductance drops 10% (typ) from its value without current.
4. Current that causes the specified temperature rise from 25°C ambient.
5. Electrical specifications at 25°C.

■ TYPICAL INDUCTANCE (L) VS CURRENT



■ TYPICAL INDUCTANCE (L) VS FREQUENCY