

Backlight Inductors-DS1608B Series



Part number ¹	L ±20%² (mH)	DCR max (Ohms)	Insulation core-winding (MOhms)	SRF typ (MHz)	Irms ³ (mA)
DS1608B-104ML_	0.10	0.95	>10	12	220
DS1608B-154ML_	0.15	1.4	>10	10	200
DS1608B-224ML_	0.22	1.7	>10	8	180
DS1608B-334ML_	0.33	2.2	>10	6	160
DS1608B-474ML_	0.47	3.8	>10	5	140
DS1608B-684ML_	0.68	4.9	>10	4	120
DS1608B-105ML_	1.0	9	>10	2	100
DS1608B-155ML_	1.5	11	>10	1	80
DS1608B-225ML_	2.2	19	>10	1	50
DS1608B-335ML_	3.3	24	>10	1	40
DS1608B-475ML_	4.7	30	>10	1	30
DS1608B-685ML_	6.8	56	>10	0.9	20
DS1608B-106ML_	10.0	74	>10	8.0	10

- Specially designed for demanding backlighting applications
- High breakdown voltage and very low DCR

Designer's Kit C334 contains 3 of each value

Core material Ferrite

Core and winding loss See www.coilcraft.com/coreloss

Terminations RoHS compliant gold over nickel over moly-manganese. Other terminations available at additional cost.

Weight 0.14 - 0.16 g

Ambient temperature -40° C to $+85^{\circ}$ C with Irms current, $+85^{\circ}$ C to $+115^{\circ}$ C with derated current

Storage temperature Component: -40°C to +115°C.

Packaging: -40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ}$ C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332
Packaging 750/7"reel; 2500/3" reel Plastic tape: 12 mm wide,
0.28 mm thick, 4 mm pocket spacing, 3 mm pocket depth

PCB washing Only pure water or alcohol recommended

1. When ordering, please specify termination and packaging codes:

DS1608B-106M LC

- **Termination:L** = RoHS compliant gold over nickel over moly-manganese **Special order: T** = RoHS tin-silver-copper (95.5/4/0.5) or **S** = non-RoHS tin-lead (63/37).
- Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (750 parts per full reel).
 - B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter C instead.
 - D = 13" machine-ready reel. EIA-481 embossed plastic tape (2500 parts per full reel).
- Inductance tested at 0.1 Vrms, 100 kHz, 0 Adc using an Agilent/HP 4263B LCR meter or equivalent.
- 3. Current that causes a 30 $^{\circ}\text{C}$ temperature rise from 25 $^{\circ}\text{C}$ ambient.
- 4. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



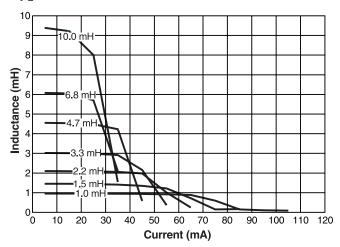
Specifications subject to change without notice. Please check our website for latest information.

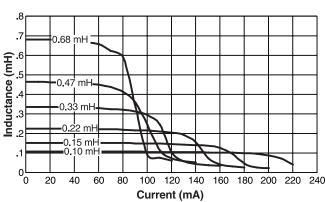
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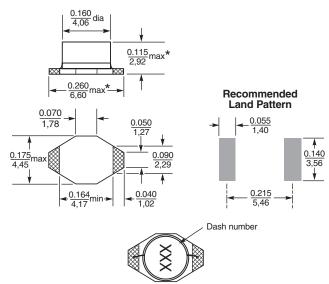


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Typical Inductance vs. Current





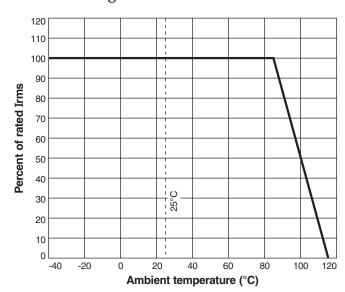


Part marking since Feb. 2005. Parts manufactured prior to that date may have color dots.

Visit www.coilcraft.com/colrpowr.cfm for color dot marking details.

Dimensions are in $\frac{\text{inches}}{\text{mm}}$

Irms Derating





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