

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-106MI	10.0	74	>10	0.8	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 electroplated gold (<50 µin) over nickel over moly-manganese. Other terminations available at additional cost.

Weight $0.14 - 0.16 \, q$

Ambient temperature -40°C to +85°C with Irms current, +85°C to +115°C with derated current

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

Tape and reel 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°C / 85% relative humidity)

Packaging 750/7" reel; 2500/13" reel Plastic tape: 12 mm wide, 0.28 mm thick, 4 mm pocket spacing, 3 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

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

DS1608B-106MLC

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).

C = 7" machine-ready reel. EIA-481 embossed plastic Packaging: tape (750 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with

leader and trailer (\$25 charge).

B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to C.

D = 13" machine-ready reel. EIA-481 embossed plastic tape (2500 parts per full reel).

- 2. 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°C temperature rise from 25°C ambient.
- 4. Electrical specifications at 25°C.

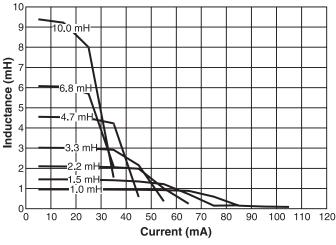
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

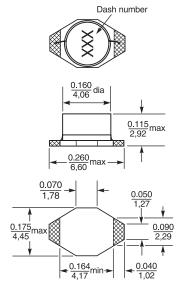


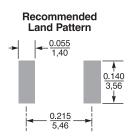


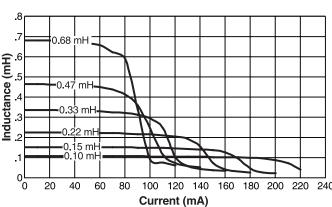
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Typical Inductance vs. Current









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

Irms Derating

