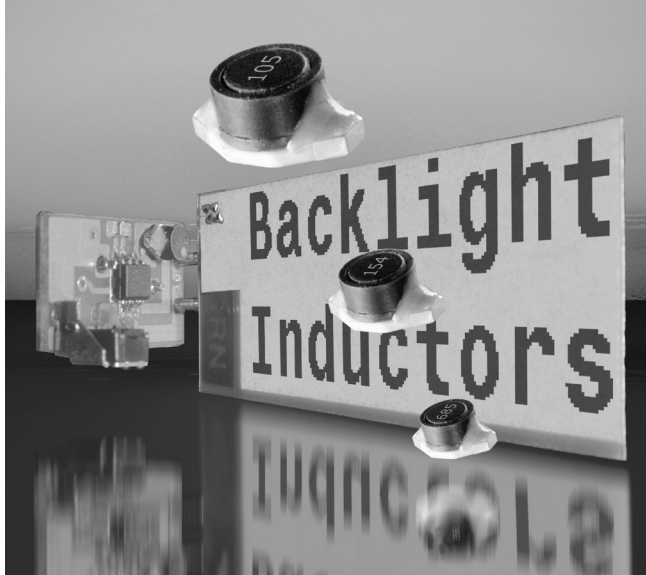




Backlight Inductors – DS1608B Series



- 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 g

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](#).

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	0.8	10

- 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).

Packaging: **C** = 7" machine-ready reel. EIA-481 embossed plastic 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).

- Inductance tested at 0.1 Vrms, 100 kHz, 0 Adc using an Agilent/HP 4263B LCR meter or equivalent.

- Current that causes a 30°C temperature rise from 25°C ambient.

- Electrical specifications at 25°C.

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



www.coilcraft.com

US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

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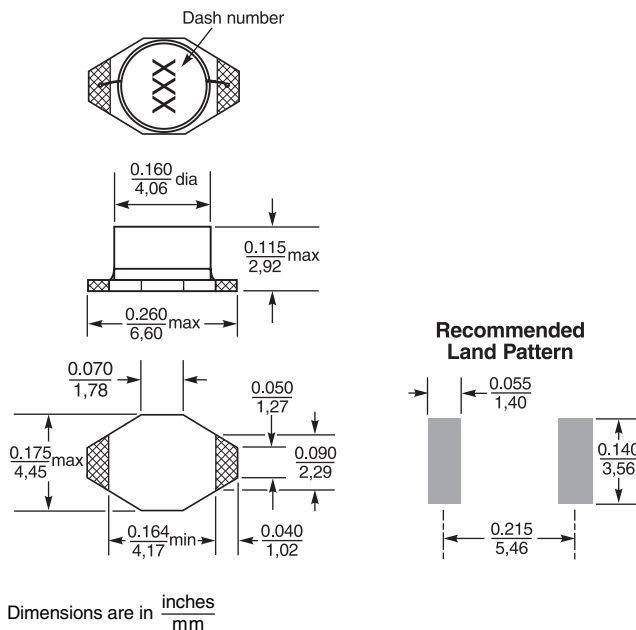
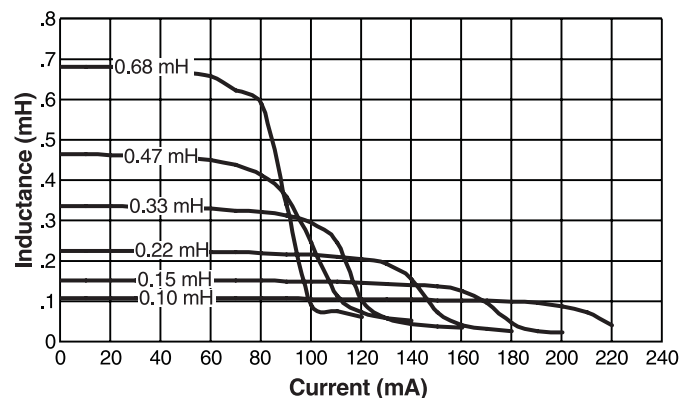
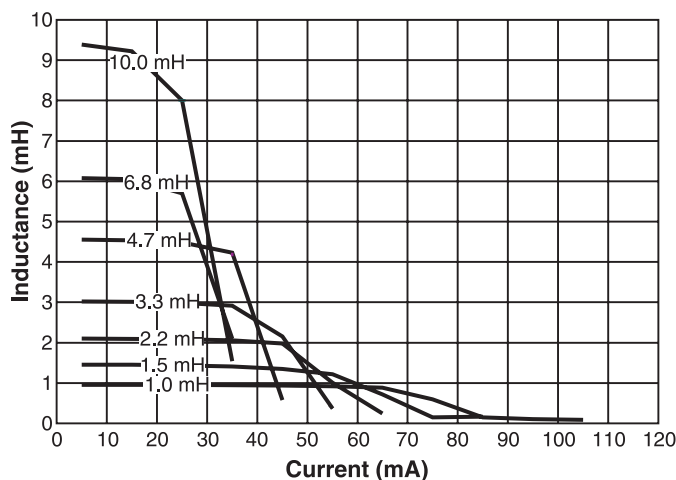
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

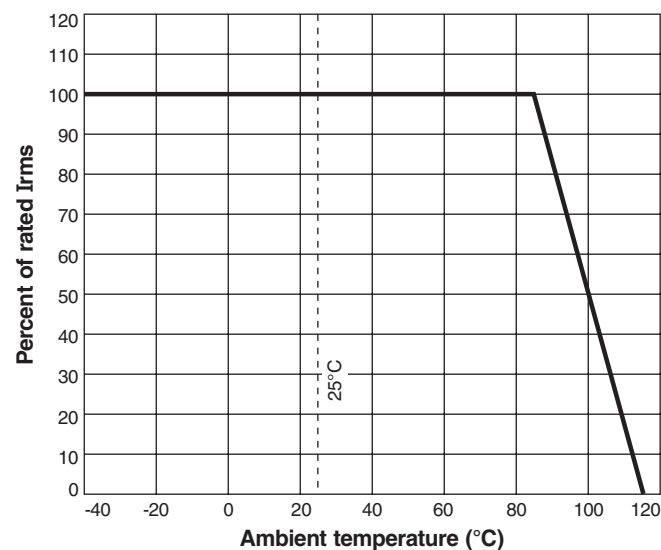


Backlight Inductors – DS1608B Series

Typical Inductance vs. Current



Irms Derating



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Coilcraft:

[DS1608B-106MLB](#) [DS1608B-154MLB](#) [DS1608B-474MLC](#) [DS1608B-105MLC](#) [DS1608B-224MLC](#) [DS1608B-155MLB](#) [DS1608B-684MLC](#) [DS1608B-104MLC](#) [DS1608B-475MLC](#) [DS1608B-335MLC](#) [DS1608B-106MLC](#) [DS1608B-104MLB](#) [DS1608B-334MLB](#) [DS1608B-684MLB](#) [DS1608B-335MLB](#) [DS1608B-154MLC](#) [DS1608B-685MLC](#) [DS1608B-155MLC](#) [DS1608B-474MLB](#) [DS1608B-225MLB](#) [DS1608B-685MLB](#) [DS1608B-225MLC](#) [DS1608B-105MLB](#) [DS1608B-475MLB](#) [DS1608B-224MLB](#) [DS1608B-334MLC](#)