

Shielded Power Inductor TLCDR8D43SG

Features:

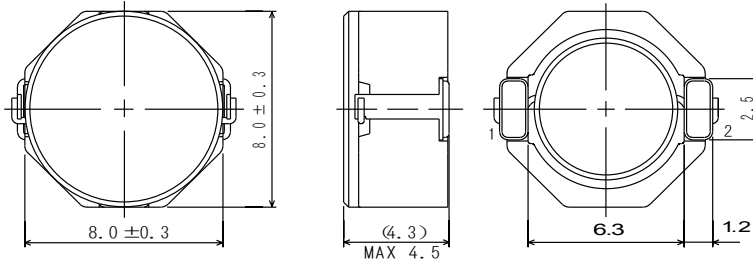
- Ferrite material, mechanically shielded
- 8.3 × 8.3 × 4.5 mm
- Weight: 0.93g
- Operating temperature -40°C~+100°C (including temperature rise)
- Storage temperature -40°C ~+100°C
- RoHS2 compliant, Halogen Free
- RSH 260°C

Applications:

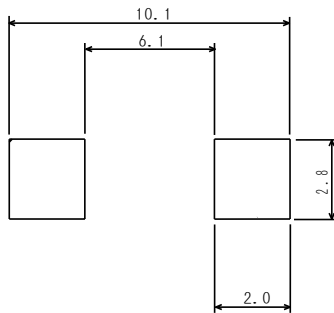
- Used in Mobile phone, MP3, PDA , HDD,DSC/DVC, etc as DC-DC converter inductors.



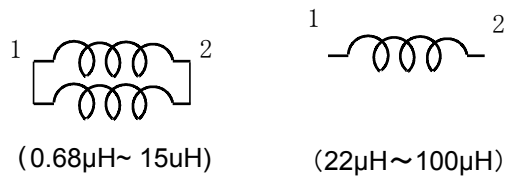
Dimensions - [mm]



Pad Layout



Schematic



Part numbering and packaging

- TLCDR H8D43 SG - 101N
- TLCDR- Series, H8D43- Part dimensions in mm, SG- Surface mount Green
101- Inductance value 100 uH, N-Tolerance
- Tape and reel packaging, 13" reel, 500 pcs.

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Electrical Characteristics

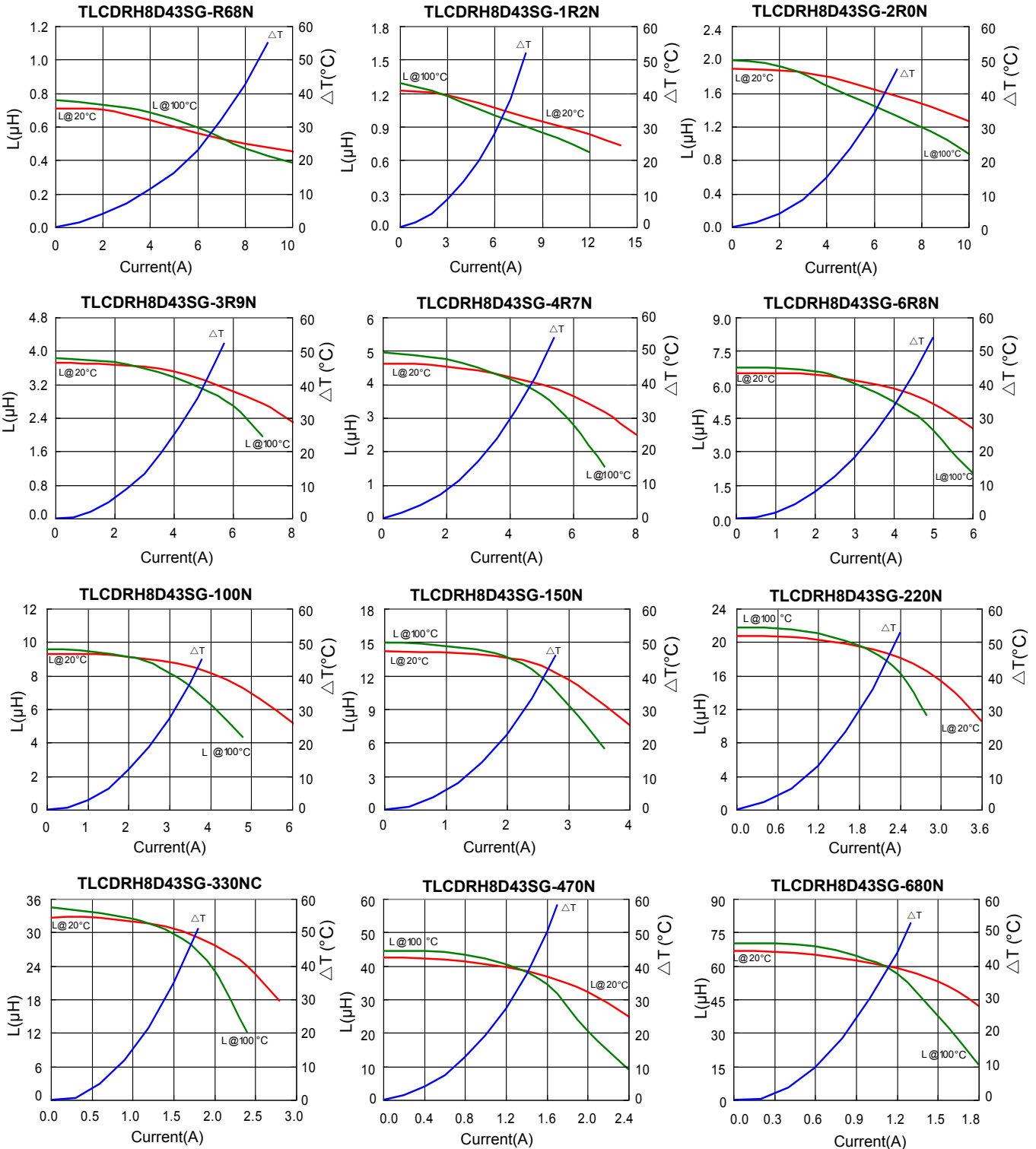
Part Number	Inductance (μH) ¹	D.C.R. (m Ω) Max.	D.C.R. (m Ω) TYP.	Rated Current (A)	Saturation Current (A) ² (Typ.)	Temperature Rise Current (A) ³
TLCDRH8D43SG-R68N	0.68 \pm 35%	9.5	7.0	9.0	10.80	7.60
TLCDRH8D43SG-1R2N	1.2 \pm 35%	12.2	9.0	8.0	10.50	7.00
TLCDRH8D43SG-2R0N	2.0 \pm 30%	14	11	7.0	9.00	6.30
TLCDRH8D43SG-3R9N	3.9 \pm 30%	19	15	5.9	7.50	4.90
TLCDRH8D43SG-4R7N	4.7 \pm 30%	22	17	5.6	7.20	4.60
TLCDRH8D43SG-6R8N	6.8 \pm 30%	25	20	4.4	5.80	4.30
TLCDRH8D43SG-100N	10 \pm 30%	36	29	4.0	5.50	3.50
TLCDRH8D43SG-150N	15 \pm 30%	53	42	2.9	3.60	2.55
TLCDRH8D43SG-220N	22 \pm 30%	75	60	2.6	3.25	2.10
TLCDRH8D43SG-330N	33 \pm 30%	125	100	2.2	2.60	1.55
TLCDRH8D43SG-470N	47 \pm 30%	150	120	1.8	2.25	1.42
TLCDRH8D43SG-680N	68 \pm 30%	240	190	1.5	1.76	1.15
TLCDRH8D43SG-101N	100 \pm 30%	360	290	1.3	1.55	0.88

Notes:

1. Inductance measured at 100kHz, 0.1Vrms.
2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.
3. Temperature rise current: The DC current at which the temperature rise is $\Delta T=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)

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Current & Temperature Rise



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