

► Shielded SMD Power Inductors ► SDRH8D Series

FEATURES

- To be high saturation for surface mounting.
- Surface mount inductor with high current rating.
- Low resistance to keep power loss minimum.
- Packed in embossed carrier tape and can be used by automatic mounting machine.



APPLICATIONS

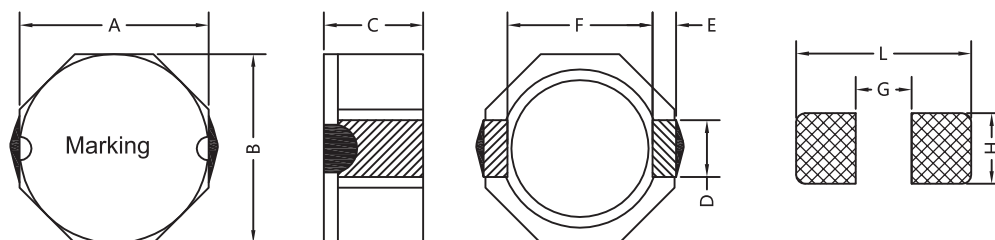
- Ideally used in Notebook PC, Game machine, HDD, DVC, LCD TV etc DC-DC converter inductors.

PRODUCT IDENTIFICATION

SDRH 8D43 - 2R2 N - T
a b c d e

- a : Series name
b : Product dimensions
c : Inductance Value (1R0:1.0uH; 100: 10uH; 101:100uH)
d : Inductance Tolerance (K:10% ; M:20% ; N:30%)
e : Packaging style (T: Taping; B: bulk)

SHAPES AND DIMENSIONS Unit: mm



Series	Dimensions(mm)								
	A	B	C	D	E	F	L	G	H
SDRH8D28	8.0±0.3	8.0±0.3	3.0 Max.	2.5	1.2	6.3	10.1	6.1	2.8
SDRH8D38	8.0±0.3	8.0±0.3	4.0 Max.	2.5	1.2	6.3	10.1	6.1	2.8
SDRH8D43	8.0±0.3	8.0±0.3	4.5 Max.	2.5	1.2	6.3	10.1	6.1	2.8

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SDRH8D28-1R0NT	1.0	100	0.011	6.50	7.00
SDRH8D28-2R5NT	2.5	100	0.016	4.50	6.40
SDRH8D28-3R3NT	3.3	100	0.019	4.00	6.00
SDRH8D28-4R7NT	4.7	100	0.025	3.40	4.50
SDRH8D28-7R3NT	7.3	100	0.039	2.80	3.40
SDRH8D28-100NT	10	100	0.047	2.50	3.20
SDRH8D28-150NT	15	100	0.069	1.90	2.35
SDRH8D28-220NT	22	100	0.099	1.60	1.85
SDRH8D28-330NT	33	100	0.156	1.30	1.49
SDRH8D28-470NT	47	100	0.195	1.15	1.30
SDRH8D28-680NT	68	100	0.286	0.92	0.98
SDRH8D28-101MT	100	100	0.430	0.75	0.80

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SDRH8D38-1R8NT	1.8	100	0.016	7.00	6.80
SDRH8D38-2R5NT	2.5	100	0.018	6.50	6.00
SDRH8D38-3R3NT	3.3	100	0.024	5.00	5.20
SDRH8D38-4R7NT	4.7	100	0.029	4.60	4.40
SDRH8D38-6R0NT	6.0	100	0.032	4.20	4.00
SDRH8D38-100NT	10	100	0.048	3.00	3.20
SDRH8D38-150NT	15	100	0.067	2.75	2.50
SDRH8D38-220NT	22	100	0.105	2.30	2.00
SDRH8D38-330NT	33	100	0.157	1.75	1.60
SDRH8D38-470NT	47	100	0.189	1.52	1.42
SDRH8D38-680NT	68	100	0.290	1.30	1.08
SDRH8D38-101MT	100	100	0.410	1.05	0.88

Note:

Isat: DC current at which the inductance drops 35% from its value without current.

Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 20°C ambient

ELECTRICAL CHARACTERISTICS

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SDRH8D43-1R0NT	1.0	100	0.010	8.50	6.60
SDRH8D43-1R2NT	1.2	100	0.013	8.00	6.20
SDRH8D43-2R2NT	2.2	100	0.014	7.00	5.50
SDRH8D43-3R9NT	3.9	100	0.019	5.90	4.50
SDRH8D43-4R7NT	4.7	100	0.022	5.60	4.10
SDRH8D43-6R8NT	6.8	100	0.025	4.40	3.90
SDRH8D43-100NT	10	100	0.036	4.00	3.20
SDRH8D43-150NT	15	100	0.053	2.90	2.30
SDRH8D43-220NT	22	100	0.075	2.60	1.80
SDRH8D43-330NT	33	100	0.125	2.20	1.40
SDRH8D43-470NT	47	100	0.150	1.80	1.30
SDRH8D43-680NT	68	100	0.240	1.50	1.00
SDRH8D43-101MT	100	100	0.360	1.30	0.80

Note:

Isat: DC current at which the inductance drops 35% from its value without current.

Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 20°C ambient