

► Shielded SMD Power Inductors ► SDRH2D~3D 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

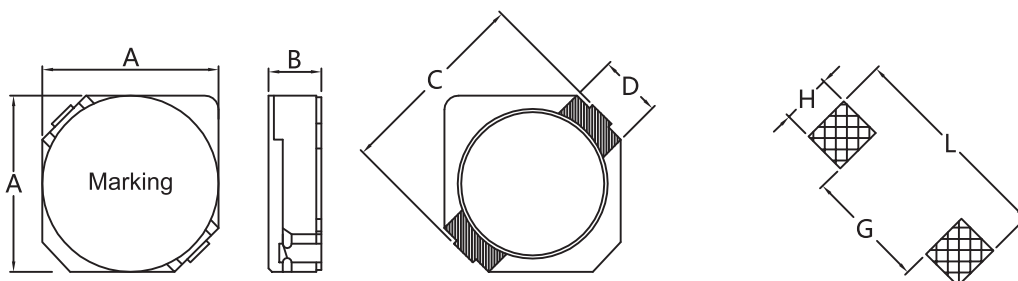
- Ideally used in Mobilephone, PDA, MP3, DVC, Portable DVD, etc as DC-DC converter inductors.

PRODUCT IDENTIFICATION

SDRH 2D11 – 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	L	G	H
SDRH2D11	3.0±0.2	1.3 Max	4.50 Max.	1.0±0.2	4.3	1.7	1.3
SDRH2D14	3.0±0.2	1.6 Max	4.50 Max.	1.0±0.2	4.3	1.7	1.3
SDRH2D18	3.0±0.2	2.0 Max	4.50 Max.	1.0±0.2	4.3	1.7	1.3
SDRH3D11	3.8±0.2	1.3 Max	5.20 Max.	1.1±0.2	5.2	2.4	1.5
SDRH3D16H	3.8±0.2	1.8 Max	5.20 Max.	1.1±0.2	5.2	2.4	1.5

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SDRH2D11-1R5NT	1.5	100	0.068	0.90	1.48
SDRH2D11-2R2NT	2.2	100	0.098	0.78	1.27
SDRH2D11-3R3NT	3.3	100	0.123	0.60	1.02
SDRH2D11-4R7NT	4.7	100	0.170	0.50	0.88
SDRH2D11-6R8NT	6.8	100	0.260	0.44	0.78
SDRH2D11-100NT	10	100	0.400	0.35	0.65

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SDRH2D14-1R2NT	1.2	100	0.049	1.95	2.75
SDRH2D14-1R5NT	1.5	100	0.063	1.80	2.00
SDRH2D14-1R8NT	1.8	100	0.075	1.65	1.80
SDRH2D14-2R2NT	2.2	100	0.094	1.50	1.60
SDRH2D14-2R7NT	2.7	100	0.106	1.35	1.40
SDRH2D14-3R3NT	3.3	100	0.125	1.20	1.24
SDRH2D14-3R9NT	3.9	100	0.138	1.10	1.12
SDRH2D14-4R7NT	4.7	100	0.169	1.00	1.00
SDRH2D14-5R6NT	5.6	100	0.188	0.95	0.98
SDRH2D14-6R8NT	6.8	100	0.213	0.85	0.92
SDRH2D14-8R2NT	8.2	100	0.281	0.80	0.80
SDRH2D14-100NT	10	100	0.294	0.70	0.76
SDRH2D14-120NT	12	100	0.394	0.62	0.64

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SDRH2D18-2R2NT	2.2	100	0.054	0.85	2.30
SDRH2D18-3R3NT	3.3	100	0.078	0.75	2.10
SDRH2D18-4R7NT	4.7	100	0.106	0.63	1.65
SDRH2D18-6R8NT	6.8	100	0.180	0.52	1.32
SDRH2D18-100NT	10	100	0.220	0.43	1.00
SDRH2D18-150NT	15	100	0.320	0.35	0.80
SDRH2D18-220NT	22	100	0.460	0.30	0.68
SDRH2D18-330NT	33	100	0.660	0.24	0.56
SDRH2D18-470NT	47	100	0.890	0.20	0.48

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(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SDRH3D11-2R7NT	2.7	100	0.078	0.53	1.82
SDRH3D11-4R7NT	4.7	100	0.123	0.40	1.38
SDRH3D11-6R8NT	6.8	100	0.180	0.34	1.05
SDRH3D11-8R2NT	8.2	100	0.204	0.32	0.93
SDRH3D11-100NT	10	100	0.240	0.28	0.90
SDRH3D11-120NT	12	100	0.276	0.25	0.81
SDRH3D11-150NT	15	100	0.372	0.23	0.68
SDRH3D11-180NT	18	100	0.468	0.21	0.58
SDRH3D11-220NT	22	100	0.540	0.19	0.53
SDRH3D11-270NT	27	100	0.726	0.17	0.48
SDRH3D11-330NT	33	100	0.822	0.15	0.41
SDRH3D11-390NT	39	100	0.942	0.14	0.40

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SDRH3D16H-3R3NT	3.3	100	0.066	0.80	2.00
SDRH3D16H-3R9NT	3.9	100	0.081	0.75	1.75
SDRH3D16H-4R7NT	4.7	100	0.091	0.68	1.72
SDRH3D16H-5R6NT	5.6	100	0.102	0.62	1.64
SDRH3D16H-6R8NT	6.8	100	0.130	0.58	1.30
SDRH3D16H-8R2NT	8.2	100	0.140	0.51	1.28
SDRH3D16H-100MT	10	100	0.190	0.46	1.07
SDRH3D16H-120MT	12	100	0.205	0.42	0.98
SDRH3D16H-150MT	15	100	0.272	0.38	0.87
SDRH3D16H-180MT	18	100	0.327	0.34	0.76
SDRH3D16H-220MT	22	100	0.356	0.31	0.66
SDRH3D16H-270MT	27	100	0.470	0.28	0.60
SDRH3D16H-330MT	33	100	0.560	0.26	0.55
SDRH3D16H-390MT	39	100	0.700	0.24	0.47
SDRH3D16H-470MT	47	100	0.775	0.21	0.45

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