

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

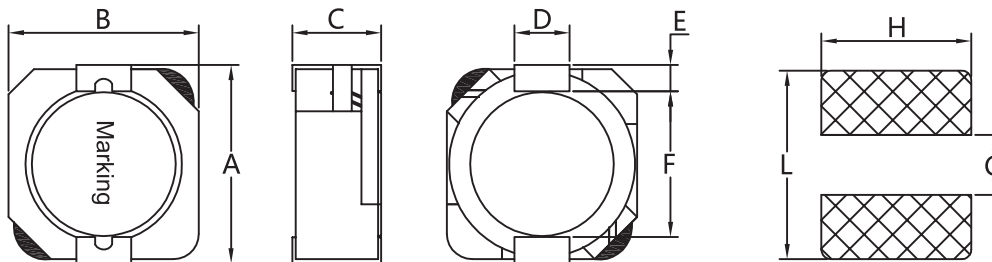
- Ideally used in Notebook PC, Game machine, HDD, DVC, LCD TV etc DC-DC converter inductors.

PRODUCT IDENTIFICATION

SDRH 103R - 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
SDRH103R	10.2±0.3	10.0±0.3	2.8±0.3	3.0	1.2	7.7	10.7	7.3	3.6
SDRH104R	10.2±0.3	10.0±0.3	3.8±0.3	3.0	1.2	7.7	10.7	7.3	3.6
SDRH105R	10.2±0.3	10.0±0.3	4.8±0.3	3.0	1.2	7.7	10.7	7.3	3.6

ELECTRICAL CHARACTERISTICS

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SDRH103R-R80NT	0.8	100	0.006	11.2	8.30
SDRH103R-1R5NT	1.5	100	0.011	8.00	5.80
SDRH103R-2R2NT	2.2	100	0.017	6.70	5.10
SDRH103R-3R3NT	3.3	100	0.021	5.56	4.70
SDRH103R-4R7NT	4.7	100	0.030	4.65	4.00
SDRH103R-6R8NT	6.8	100	0.035	3.84	3.60
SDRH103R-8R2NT	8.2	100	0.050	3.54	3.00
SDRH103R-100NT	10	100	0.059	3.18	2.80
SDRH103R-150NT	15	100	0.091	2.60	2.05
SDRH103R-220NT	22	100	0.143	2.16	1.60
SDRH103R-330NT	33	100	0.202	1.74	1.35
SDRH103R-470NT	47	100	0.299	1.43	1.20
SDRH103R-560NT	56	100	0.325	1.36	1.15
SDRH103R-680NT	68	100	0.429	1.22	0.95
SDRH103R-820NT	82	100	0.494	1.14	0.80
SDRH103R-101MT	100	100	0.683	1.02	0.70
SDRH103R-121MT	120	100	0.754	0.89	0.65
SDRH103R-151MT	150	100	0.871	0.84	0.51

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)
SDRH104R-1R5NT	1.5	100	0.008	10.0	6.50
SDRH104R-2R7NT	2.7	100	0.011	7.50	6.10
SDRH104R-3R9NT	3.9	100	0.013	6.00	5.50
SDRH104R-5R2NT	5.2	100	0.022	5.50	5.40
SDRH104R-6R8NT	6.8	100	0.027	4.80	4.50
SDRH104R-100NT	10	100	0.035	4.40	3.80
SDRH104R-120NT	12	100	0.046	3.70	3.40
SDRH104R-150NT	15	100	0.050	3.60	3.10
SDRH104R-180NT	18	100	0.069	3.10	2.60
SDRH104R-220NT	22	100	0.073	2.90	2.50
SDRH104R-270NT	27	100	0.088	2.60	2.30
SDRH104R-330NT	33	100	0.093	2.30	2.20
SDRH104R-390NT	39	100	0.127	2.20	2.00
SDRH104R-470NT	47	100	0.128	2.10	1.90
SDRH104R-560NT	56	100	0.188	1.65	1.50
SDRH104R-680NT	68	100	0.213	1.50	1.42
SDRH104R-820NT	82	100	0.283	1.45	1.30
SDRH104R-101MT	100	100	0.304	1.35	1.25
SDRH104R-121MT	120	100	0.375	1.20	1.08
SDRH104R-151MT	150	100	0.506	1.15	0.85
SDRH104R-181MT	180	100	0.568	1.00	0.75
SDRH104R-221MT	220	100	0.756	0.92	0.70
SDRH104R-271MT	270	100	0.853	0.84	0.55
SDRH104R-331MT	330	100	1.090	0.70	0.52

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ELECTRICAL CHARACTERISTICS

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SDRH105R-R80NT	0.8	100	0.005	9.50	13.5
SDRH105R-1R5NT	1.5	100	0.006	8.30	10.5
SDRH105R-2R2NT	2.2	100	0.008	7.50	9.25
SDRH105R-3R3NT	3.3	100	0.011	6.50	7.80
SDRH105R-4R7NT	4.7	100	0.013	6.10	6.40
SDRH105R-6R8NT	6.8	100	0.018	5.40	5.40
SDRH105R-8R2NT	8.2	100	0.020	5.00	4.85
SDRH105R-100NT	10	100	0.026	4.50	4.45
SDRH105R-120NT	12	100	0.033	3.80	4.00
SDRH105R-150NT	15	100	0.041	3.40	3.60
SDRH105R-180NT	18	100	0.046	3.10	3.20
SDRH105R-220NT	22	100	0.061	2.90	2.95
SDRH105R-270NT	27	100	0.069	2.60	2.70
SDRH105R-330NT	33	100	0.084	2.50	2.40
SDRH105R-390NT	39	100	0.106	2.25	2.30
SDRH105R-470NT	47	100	0.130	2.00	2.00
SDRH105R-560NT	56	100	0.149	1.90	1.90
SDRH105R-680NT	68	100	0.201	1.60	1.65
SDRH105R-820NT	82	100	0.227	1.45	1.50
SDRH105R-101MT	100	100	0.253	1.35	1.35
SDRH105R-121MT	120	100	0.303	1.18	1.28
SDRH105R-151MT	150	100	0.370	1.10	1.12
SDRH105R-181MT	180	100	0.419	1.00	1.04
SDRH105R-221MT	220	100	0.500	0.94	0.94
SDRH105R-271MT	270	100	0.672	0.80	0.84
SDRH105R-331MT	330	100	0.812	0.73	0.75
SDRH105R-391MT	390	100	0.953	0.70	0.70
SDRH105R-471MT	470	100	1.289	0.54	0.60
SDRH105R-561MT	560	100	1.430	0.52	0.54
SDRH105R-681MT	680	100	1.599	0.51	0.52
SDRH105R-821MT	820	100	1.768	0.48	0.50
SDRH105R-102MT	1000	100	1.989	0.42	0.48

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