

FEATURES

- Low DC resistance and for large current.
- Closed magnetic circuit crosstalk.
- Excellent solderability and heat resistance.
- Available for automatic mounting in tape and reel package.



APPLICATIONS

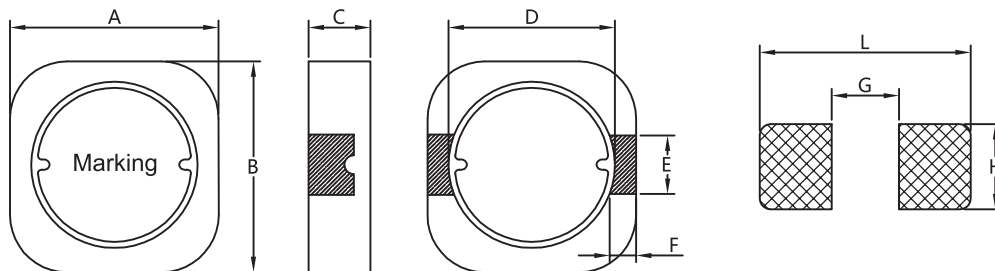
- Ideally used in Notebook PC, LCD TV,DVD, Game machine, STB , Projector etc as DC-DC converter inductors.

PRODUCT IDENTIFICATION

SDS 0620 – 4R7 M - 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 Max.	B Max.	C Max.	D	E	F	L	G	H
SDS0518	5.30	5.30	1.80	4.20	1.60	0.60	6.0	4.0	2.0
SDS0520	5.30	5.30	2.00	4.20	1.60	0.60	6.0	4.0	2.0
SDS0530	5.30	5.30	3.00	4.20	1.60	0.60	6.0	4.0	2.0
SDS0620	6.30	6.30	2.00	4.80	2.00	0.70	6.6	4.6	2.6
SDS0625	6.30	6.30	2.50	4.80	2.00	0.70	6.6	4.6	2.6
SDS0630	6.30	6.30	3.00	4.80	2.00	0.70	6.6	4.6	2.6
SDS0635	6.30	6.30	3.50	4.80	2.00	0.70	6.6	4.6	2.6
SDS1040	10.40	10.40	4.80	6.00	3.00	2.00	11.0	5.4	3.7

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SDS0518-1R2MT	1.2	100	0.054	1.80
SDS0518-1R8MT	1.8	100	0.065	1.60
SDS0518-2R3MT	2.3	100	0.076	1.50
SDS0518-3R6MT	3.6	100	0.097	1.20
SDS0518-4R3MT	4.3	100	0.110	1.10
SDS0518-5R1MT	5.1	100	0.130	1.00
SDS0518-6R8MT	6.8	100	0.150	0.94
SDS0518-100MT	10	100	0.220	0.80
SDS0518-150MT	15	100	0.325	0.64
SDS0518-180MT	18	100	0.380	0.56
SDS0518-220MT	22	100	0.540	0.49
SDS0518-330MT	33	100	0.770	0.41
SDS0518-470MT	47	100	1.120	0.33

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SDS0520-1R0MT	1.0	100	0.044	2.15
SDS0520-2R2MT	2.2	100	0.059	1.63
SDS0520-3R5MT	3.5	100	0.073	1.34
SDS0520-4R7MT	4.7	100	0.087	1.14
SDS0520-6R8MT	6.8	100	0.105	0.95
SDS0520-100MT	10	100	0.150	0.76
SDS0520-150MT	15	100	0.210	0.63
SDS0520-220MT	22	100	0.275	0.56
SDS0520-330MT	33	100	0.455	0.44
SDS0520-470MT	47	100	0.730	0.36
SDS0520-680MT	68	100	0.935	0.30
SDS0520-101MT	100	100	1.500	0.23

Note:

Rated current: The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t = 40^{\circ}\text{C}$, whichever is lower ($T_a = 20^{\circ}\text{C}$)

ELECTRICAL CHARACTERISTICS

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SDS0530-1R1MT	1.1	100	0.020	3.87
SDS0530-3R3MT	3.3	100	0.034	2.36
SDS0530-4R7MT	4.7	100	0.045	1.87
SDS0530-6R8MT	6.8	100	0.068	1.51
SDS0530-100MT	10	100	0.090	1.33
SDS0530-150MT	15	100	0.142	1.05
SDS0530-220MT	22	100	0.208	0.86
SDS0530-330MT	33	100	0.257	0.72
SDS0530-470MT	47	100	0.352	0.62
SDS0530-680MT	68	100	0.525	0.51

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SDS0620-1R0MT	1.0	100	0.016	3.50
SDS0620-2R0MT	2.0	100	0.028	2.47
SDS0620-3R3MT	3.3	100	0.047	1.99
SDS0620-4R7MT	4.7	100	0.065	1.59
SDS0620-6R2MT	6.2	100	0.074	1.49
SDS0620-8R2MT	8.2	100	0.102	1.25
SDS0620-100MT	10	100	0.118	1.22
SDS0620-120MT	12	100	0.153	0.99
SDS0620-150MT	15	100	0.197	0.94
SDS0620-180MT	18	100	0.207	0.83
SDS0620-220MT	22	100	0.253	0.80
SDS0620-330MT	33	100	0.368	0.63
SDS0620-390MT	39	100	0.473	0.55
SDS0620-470MT	47	100	0.542	0.50

Note:

Rated current: The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t = 40^{\circ}\text{C}$, whichever is lower($T_a = 20^{\circ}\text{C}$)

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SDS0625-1R0MT	1.0	100	0.014	3.48
SDS0625-1R5MT	1.5	100	0.018	2.83
SDS0625-2R0MT	2.0	100	0.020	2.44
SDS0625-3R3MT	3.3	100	0.030	1.89
SDS0625-4R7MT	4.7	100	0.039	1.65
SDS0625-6R2MT	6.2	100	0.054	1.37
SDS0625-100MT	10	100	0.080	1.07
SDS0625-120MT	12	100	0.094	0.97
SDS0625-150MT	15	100	0.109	0.87
SDS0625-180MT	18	100	0.138	0.79
SDS0625-220MT	22	100	0.163	0.71
SDS0625-330MT	33	100	0.244	0.58
SDS0625-470MT	47	100	0.363	0.48
SDS0625-560MT	56	100	0.431	0.44
SDS0625-680MT	68	100	0.500	0.40
SDS0625-820MT	82	100	0.580	0.36
SDS0625-101MT	100	100	0.820	0.33

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SDS0630-1R0MT	1.0	100	0.014	3.59
SDS0630-1R5MT	1.5	100	0.016	2.93
SDS0630-2R2MT	2.2	100	0.020	2.42
SDS0630-3R3MT	3.3	100	0.026	1.89
SDS0630-4R7MT	4.7	100	0.034	1.66
SDS0630-6R2MT	6.2	100	0.040	1.45
SDS0630-100MT	10	100	0.061	1.14
SDS0630-150MT	15	100	0.078	0.93
SDS0630-180MT	18	100	0.093	0.85
SDS0630-220MT	22	100	0.119	0.77
SDS0630-330MT	33	100	0.175	0.63
SDS0630-390MT	39	100	0.188	0.58
SDS0630-470MT	47	100	0.231	0.53
SDS0630-560MT	56	100	0.275	0.48
SDS0630-680MT	68	100	0.338	0.44
SDS0630-820MT	82	100	0.413	0.40
SDS0630-101MT	100	100	0.519	0.36

Note:

Rated current: The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t = 40^{\circ}\text{C}$, whichever is lower($T_a = 20^{\circ}\text{C}$)

ELECTRICAL CHARACTERISTICS

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SDS0635-2R0MT	2.0	100	0.020	2.99
SDS0635-3R3MT	3.3	100	0.027	2.57
SDS0635-4R7MT	4.7	100	0.033	2.08
SDS0635-8R2MT	8.2	100	0.045	1.54
SDS0635-100MT	10	100	0.052	1.49
SDS0635-120MT	12	100	0.065	1.28
SDS0635-150MT	15	100	0.080	1.10
SDS0635-180MT	18	100	0.085	1.04
SDS0635-220MT	22	100	0.111	0.96
SDS0635-330MT	33	100	0.169	0.75
SDS0635-470MT	47	100	0.218	0.67
SDS0635-560MT	56	100	0.268	0.60
SDS0635-680MT	68	100	0.333	0.55
SDS0635-820MT	82	100	0.436	0.46
SDS0635-101MT	100	100	0.496	0.44

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SDS1040-1R0MT	1.0	100	0.014	8.70
SDS1040-2R7MT	2.7	100	0.016	7.30
SDS1040-3R9MT	3.9	100	0.018	5.80
SDS1040-6R8MT	6.8	100	0.035	4.50
SDS1040-8R2MT	8.2	100	0.040	4.10
SDS1040-100MT	10	100	0.044	3.60
SDS1040-120MT	12	100	0.051	3.30
SDS1040-150MT	15	100	0.062	3.10
SDS1040-180MT	18	100	0.079	2.70
SDS1040-220MT	22	100	0.087	2.40
SDS1040-330MT	33	100	0.125	2.00
SDS1040-470MT	47	100	0.175	1.70
SDS1040-560MT	56	100	0.195	1.50
SDS1040-680MT	68	100	0.240	1.30
SDS1040-820MT	82	100	0.295	1.20
SDS1040-101MT	100	100	0.380	1.00

Note:

Rated current: The DC current at which the inductance decreases to 70 % of its initial value or when $\Delta t = 40^{\circ}\text{C}$, whichever is lower($T_a = 20^{\circ}\text{C}$)