

► SMD High Current Power Inductors SEDW Series



FEATURES

- Using the latest state of the art fine rectangular magnet wire construction.
- Super low resistance, ultra high rating current.

APPLICATIONS

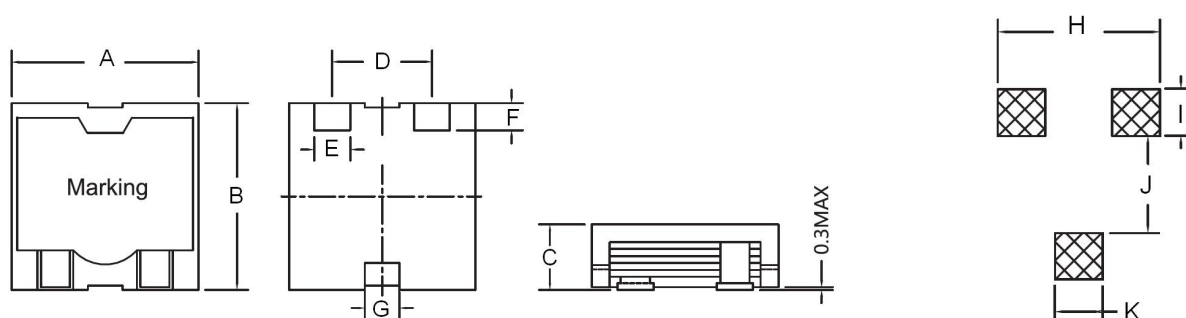
- Excellent for power line DC-DC conversion applications used in notebook computers and other handheld electronic equipment.

PRODUCT IDENTIFICATION

SEDW 1203 - 100 M - I
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±0.5	E Ref.	F Ref.	G Ref.	H Ref.	I Ref.	J Ref.	K Ref.
SEDW1005	10.4	10.6	5.5	5.5	2.5	2.0	1.5	8.2	2.5	5.8	2.4
SEDW1206	13.1	13.5	5.8	7.0	2.5	2.0	2.5	9.8	2.5	8.0	3.0
SEDW1209	13.1	13.5	9.0	7.0	2.5	2.0	2.5	9.8	2.5	8.0	3.0
SEDW1508	14.9	15.4	8.2	9.0	2.8	1.8	2.5	13.0	2.7	10.0	3.5
SEDW1512	14.9	15.4	12.2	9.0	2.8	1.8	2.5	13.0	2.7	10.0	3.5
SEDW2715	27.9	27.9	15.8	10.0	4.7	4.6	4.7	17.5	5.3	15.6	6.3
SEDW2717	27.9	27.9	17.8	10.0	4.7	4.6	4.7	17.5	5.3	15.6	6.3

ELECTRICAL CHARACTERISTICS

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(mΩ)	Isat.(A)	Irms.(A)
SEDW1005-R80MT	0.80	100	5.0	25.6	16.3
SEDW1005-1R0MT	1.00	100	5.0	17.5	16.3
SEDW1005-1R3MT	1.30	100	5.0	17.2	16.3
SEDW1005-1R5MT	1.50	100	5.0	14.5	16.3
SEDW1005-2R2MT	2.20	100	5.0	10.0	16.3
SEDW1005-3R2MT	3.20	100	7.0	8.5	15.0
SEDW1005-4R3MT	4.30	100	8.5	7.0	12.0
SEDW1005-5R7MT	5.70	100	10.0	6.0	11.5

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(mΩ)	Isat.(A)	Irms.(A)
SEDW1206-R33MT	0.33	100	1.0	43.0	18.0
SEDW1206-R65MT	0.65	100	2.5	28.0	16.0
SEDW1206-1R0MT	1.00	100	3.0	23.5	13.0
SEDW1206-1R8MT	1.80	100	3.0	20.0	13.0
SEDW1206-2R7MT	2.70	100	3.0	14.0	13.0
SEDW1206-3R3MT	3.30	100	6.5	14.0	9.4
SEDW1206-4R0MT	4.00	100	6.5	13.0	9.4
SEDW1206-4R7MT	4.70	100	6.5	12.0	9.4
SEDW1206-6R0MT	6.00	100	6.5	9.5	9.4
SEDW1206-8R0MT	8.00	100	11.0	9.0	7.6
SEDW1206-100MT	10.0	100	11.0	7.5	6.2

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(mΩ)	Isat.(A)	Irms.(A)
SEDW1209-100MT	10.0	100	15.0	13.1	9.2
SEDW1209-150MT	15.0	100	15.0	8.6	9.2
SEDW1209-220MT	22.0	100	23.1	7.3	7.7
SEDW1209-330MT	33.0	100	23.1	4.7	7.7
SEDW1209-470MT	47.0	100	23.1	3.2	7.7

Note:

Irms: DC current(A) that will cause an approximate ΔT of 40°C

Isat: DC current(A) that will cause L0 to drop approximate 30%

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(m Ω)	Isat.(A)	Irms.(A)
SEDW1508-R40NT	0.40	100	1.2	66.0	23.0
SEDW1508-R90MT	0.90	100	1.5	45.0	21.5
SEDW1508-1R5MT	1.50	100	2.0	34.0	20.0
SEDW1508-2R4MT	2.40	100	3.2	28.0	17.5
SEDW1508-3R4MT	3.40	100	5.0	23.0	16.0
SEDW1508-4R7MT	4.70	100	6.0	19.0	12.5
SEDW1508-6R1MT	6.10	100	7.8	18.5	11.0
SEDW1508-7R7MT	7.70	100	9.9	15.5	10.0
SEDW1508-9R5MT	9.50	100	13.3	14.0	8.50
SEDW1508-100MT	10.0	100	9.9	11.5	10.0
SEDW1508-120MT	12.0	100	13.3	10.0	8.50
SEDW1508-470MT	47.0	100	27.0	3.0	2.50

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(m Ω)	Isat.(A)	Irms.(A)
SEDW1512-4R7MT	4.7	100	4.5	18.4	13.0
SEDW1512-6R1MT	6.1	100	5.4	16.4	12.5
SEDW1512-7R7MT	7.7	100	7.6	14.8	10.3
SEDW1512-100MT	10.0	100	8.4	13.1	9.6
SEDW1512-120MT	12.0	100	9.8	11.8	9.0
SEDW1512-140MT	14.0	100	11.3	10.9	8.3
SEDW1512-150MT	15.0	100	11.4	9.5	8.0
SEDW1512-220MT	22.0	100	13.2	8.0	7.0
SEDW1512-330MT	33.0	100	20.4	6.5	6.0
SEDW1512-470MT	47.0	100	30.0	5.0	3.5

Note:

Irms: DC current(A) that will cause an approximate ΔT of 40℃

Isat: DC current(A) that will cause L0 to drop approximate 30%

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(mΩ)	Isat.(A)	Irms.(A)
SEDW2715-1R5MB	1.50	100	1.80	100.0	30.0
SEDW2715-2R2MB	2.20	100	1.80	100.0	30.0
SEDW2715-3R3MB	3.30	100	1.80	68.4	30.0
SEDW2715-4R7MB	4.70	100	1.80	50.1	30.0
SEDW2715-6R8MB	6.80	100	1.80	36.2	30.0
SEDW2715-100MB	10.0	100	1.80	23.4	30.0

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(mΩ)	Isat.(A)	Irms.(A)
SEDW2717-3R3MB	3.30	100	2.80	93.6	28.0
SEDW2717-4R7MB	4.70	100	2.80	62.4	28.0
SEDW2717-6R8MB	6.80	100	2.80	45.9	28.0
SEDW2717-100MB	10.0	100	2.80	32.1	28.0
SEDW2717-150MB	15.0	100	2.80	21.9	28.0
SEDW2717-220MB	22.0	100	2.80	15.0	28.0
SEDW2717-330MB	33.0	100	2.80	9.6	28.0

Note:

Irms: DC current(A) that will cause an approximate ΔT of 40°C

Isat: DC current(A) that will cause L0 to drop approximate 30%