

Wire Wound SMD Power Inductors—VE Series

Applications:

- Power supply for VTRs. LCD televisions.
- Notebook PCs, Portable communication equipment.
- DC/DC converters, etc.



Features :

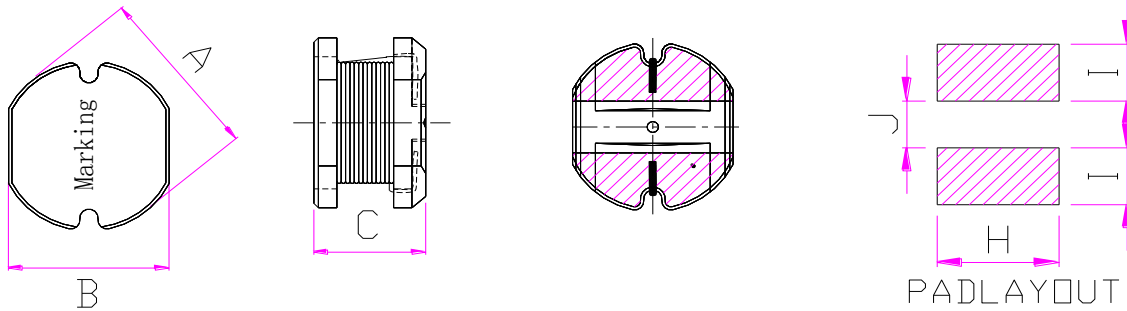
- Silver Plated Type, Low cost designed.
- Available on tape and reel for auto surface mounting.

Product Identification :

VE 5845 - 100 M
(1) (2) (3) (4)

- (1) Product symbol.
- (2) Dimensions code.
- (3) Inductance: “100” for 10uH.
- (4) Tolerance: K: ±10%; M: ±20%; N: ±30%.

Dimensions in (mm)



Item	A	B	C	H	I	J
VE3521	3.5±0.3	3.0±0.3	2.1±0.3	3.5	1.6	0.8
VE4532	4.5±0.3	4.0±0.3	3.2±0.3	4.5	1.75	1.5
VE5830	5.8±0.3	5.2±0.3	3.0±0.3	5.5	2.15	1.7
VE5845	5.8±0.3	5.2±0.3	4.5±0.3	5.5	2.15	1.7
VE7835	7.8±0.3	7.0±0.3	3.5±0.3	7.5	3.0	2.0
VE7850	7.8±0.3	7.0±0.3	5.0±0.3	7.5	3.0	2.0
VE1040	10.0±0.3	9.0±0.3	4.0±0.3	9.5	3.75	2.5
VE1054	10.0±0.3	9.0±0.3	5.4±0.4	9.5	3.75	2.5

Characteristics :

- Saturation Current (Isat): The current when the inductance becomes 20% lower than its initial value. (Ta=20°C).
- Temperature Rise Current (Irms): The current when the temperature of coil increases up to max. ΔT=40°C. (Ta=20°C)
- Operating temperature : -30°C ~ +105°C.
- Storage temperature range (packaging conditions): -5°C ~ +30°C and RH 70% (Max.)

Test equipments :

- L&Q: HP 4285A or HP 4284A, VR116/VR7210.
- DCR: Milli-ohm meter, VR131.
- Electrical specifications at 25°C.

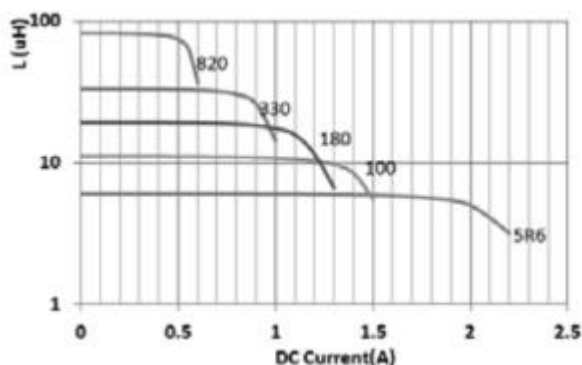
Electrical Characteristics

VE3521 Series

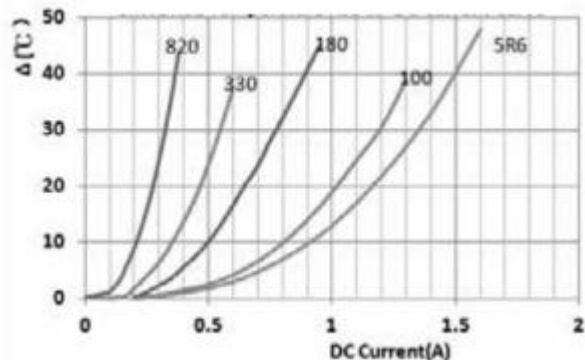
Part No.	L(μ H)	Test Frequency	DCR(Ω)		Isat(A)		Irms(A)		Marking
			Max.	Typ.	Max.	Typ.	Max.	Typ.	
VE3521-1R0M	1.0 \pm 20%	100kHz/0.25V	45m	30m	3.30	4.10	2.60	3.10	1R0
VE3521-1R2M	1.2 \pm 20%	100kHz/0.25V	50m	32m	3.00	3.70	2.50	3.00	1R2
VE3521-1R5M	1.5 \pm 20%	100kHz/0.25V	55m	44m	2.70	3.40	2.15	2.60	1R5
VE3521-1R8M	1.8 \pm 20%	100kHz/0.25V	70m	49m	2.50	3.20	2.00	2.50	1R8
VE3521-2R2M	2.2 \pm 20%	100kHz/0.25V	85m	59m	2.30	2.80	1.80	2.20	2R2
VE3521-2R7M	2.7 \pm 20%	100kHz/0.25V	100m	65m	2.20	2.70	1.55	1.90	2R7
VE3521-3R3M	3.3 \pm 20%	100kHz/0.25V	120m	96m	1.95	2.40	1.45	1.80	3R3
VE3521-3R9M	3.9 \pm 20%	100kHz/0.25V	125m	110m	1.85	2.30	1.40	1.60	3R9
VE3521-4R7M	4.7 \pm 20%	100kHz/0.25V	135m	120m	1.60	2.00	1.30	1.50	4R7
VE3521-5R6M	5.6 \pm 20%	100kHz/0.25V	165m	140m	1.55	1.90	1.25	1.40	5R6
VE3521-6R8M	6.8 \pm 20%	100kHz/0.25V	0.20	0.17	1.40	1.75	1.20	1.38	6R8
VE3521-8R2M	8.2 \pm 20%	100kHz/0.25V	0.25	0.19	1.20	1.45	1.15	1.35	8R2
VE3521-100M	10 \pm 20%	1kHz/0.25V	0.32	0.24	1.05	1.30	1.10	1.30	100
VE3521-120M	12 \pm 20%	1kHz/0.25V	0.35	0.27	1.00	1.25	0.90	1.05	120
VE3521-150M	15 \pm 20%	1kHz/0.25V	0.46	0.37	0.90	1.15	0.75	0.90	150
VE3521-180M	18 \pm 20%	1kHz/0.25V	0.52	0.40	0.80	1.00	0.70	0.85	180
VE3521-220K	22 \pm 10%	1kHz/0.25V	0.65	0.57	0.75	0.95	0.56	0.66	220
VE3521-270K	27 \pm 10%	1kHz/0.25V	0.75	0.66	0.70	0.85	0.53	0.63	270
VE3521-330K	33 \pm 10%	1kHz/0.25V	0.92	0.76	0.60	0.75	0.52	0.62	330
VE3521-390K	39 \pm 10%	1kHz/0.25V	1.12	0.97	0.55	0.72	0.43	0.52	390
VE3521-470K	47 \pm 10%	1kHz/0.25V	1.27	1.10	0.50	0.65	0.40	0.47	470
VE3521-560K	56 \pm 10%	1kHz/0.25V	1.50	1.30	0.45	0.58	0.35	0.43	560
VE3521-680K	68 \pm 10%	1kHz/0.25V	2.00	1.52	0.40	0.50	0.33	0.40	680
VE3521-820K	82 \pm 10%	1kHz/0.25V	2.15	1.83	0.35	0.47	0.30	0.37	820
VE3521-101K	100 \pm 10%	1kHz/0.25V	2.80	2.46	0.34	0.42	0.28	0.33	101
VE3521-121K	120 \pm 10%	1kHz/0.25V	3.40	2.74	0.33	0.41	0.26	0.31	121
VE3521-151K	150 \pm 10%	1kHz/0.25V	4.20	3.12	0.28	0.35	0.23	0.28	151
VE3521-181K	180 \pm 10%	1kHz/0.25V	4.50	3.58	0.27	0.34	0.21	0.25	181
VE3521-221K	220 \pm 10%	1kHz/0.25V	5.70	5.05	0.25	0.31	0.19	0.23	221
VE3521-271K	270 \pm 10%	1kHz/0.25V	8.50	5.92	0.22	0.27	0.17	0.20	271
VE3521-331K	330 \pm 10%	1kHz/0.25V	9.50	6.96	0.19	0.24	0.15	0.18	331

Typical Performance curves:

VE3521 Inductance vs DC Current Curve



VE3521 Temperature rise vs DC Current Curve



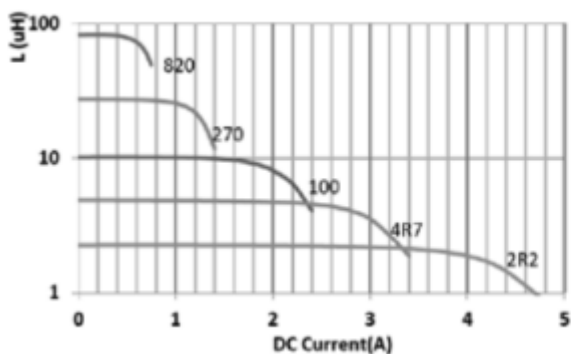
Electrical Characteristics

VE4532 Series

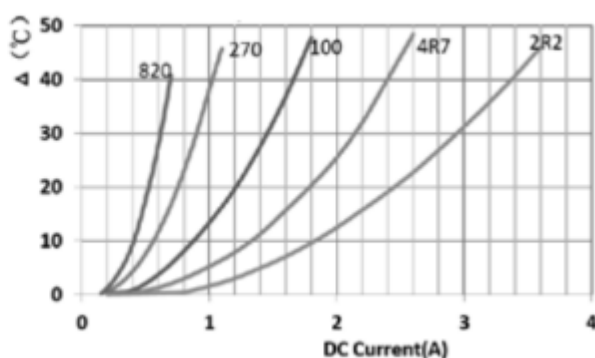
Part No.	L(μ H)	Test Frequency	DCR(Ω)		Isat(A)		Irms(A)		Marking
			Max.	Typ.	Max.	Typ.	Max.	Typ.	
VE4532-1R0M	1.0 \pm 20%	100kHz/0.25V	26m	17m	3.85	4.80	3.40	4.20	1R0
VE4532-1R5M	1.5 \pm 20%	100kHz/0.25V	35m	23m	3.44	4.30	3.00	3.70	1R5
VE4532-2R2M	2.2 \pm 20%	100kHz/0.25V	42m	28m	2.80	3.50	2.75	3.40	2R2
VE4532-2R7M	2.7 \pm 20%	100kHz/0.25V	48m	32m	2.75	3.45	2.45	3.15	2R7
VE4532-3R3M	3.3 \pm 20%	100kHz/0.25V	60m	40m	2.48	3.10	2.35	2.85	3R3
VE4532-3R9M	3.9 \pm 20%	100kHz/0.25V	65m	43m	2.32	2.90	2.00	2.60	3R9
VE4532-4R7M	4.7 \pm 20%	100kHz/0.25V	76m	56m	2.00	2.50	1.98	2.40	4R7
VE4532-5R6M	5.6 \pm 20%	100kHz/0.25V	103m	76m	1.96	2.45	1.80	2.20	5R6
VE4532-6R8M	6.8 \pm 20%	100kHz/0.25V	119m	88m	1.60	2.00	1.62	2.00	6R8
VE4532-8R2M	8.2 \pm 20%	100kHz/0.25V	134m	99m	1.52	1.90	1.42	1.82	8R2
VE4532-100M	10 \pm 20%	1kHz/0.25V	0.14	0.11	1.44	1.80	1.38	1.62	100
VE4532-120M	12 \pm 20%	1kHz/0.25V	0.19	0.15	1.24	1.55	1.30	1.50	120
VE4532-150M	15 \pm 20%	1kHz/0.25V	0.21	0.17	1.12	1.40	1.18	1.42	150
VE4532-180M	18 \pm 20%	1kHz/0.25V	0.27	0.22	1.00	1.25	1.05	1.30	180
VE4532-220M	22 \pm 20%	1kHz/0.25V	0.31	0.25	0.96	1.20	0.98	1.20	220
VE4532-270M	27 \pm 20%	1kHz/0.25V	0.36	0.29	0.84	1.05	0.85	1.05	270
VE4532-330K	33 \pm 10%	1kHz/0.25V	0.42	0.34	0.76	0.95	0.82	1.00	330
VE4532-390K	39 \pm 10%	1kHz/0.25V	0.48	0.39	0.74	0.92	0.78	0.92	390
VE4532-470M	47 \pm 20%	1kHz/0.25V	0.56	0.45	0.68	0.85	0.74	0.90	470
VE4532-560K	56 \pm 10%	1kHz/0.25V	0.81	0.65	0.63	0.78	0.65	0.80	560
VE4532-680K	68 \pm 10%	1kHz/0.25V	0.92	0.74	0.50	0.62	0.58	0.70	680
VE4532-820K	82 \pm 10%	1kHz/0.25V	1.06	0.85	0.46	0.58	0.55	0.65	820
VE4532-101K	100 \pm 10%	1kHz/0.25V	1.18	0.95	0.45	0.57	0.52	0.62	101
VE4532-121K	120 \pm 10%	1kHz/0.25V	1.31	1.05	0.44	0.56	0.46	0.56	121
VE4532-151K	150 \pm 10%	1kHz/0.25V	1.97	1.58	0.37	0.46	0.38	0.47	151
VE4532-181K	180 \pm 10%	1kHz/0.25V	2.55	2.04	0.30	0.38	0.33	0.42	181
VE4532-221K	220 \pm 10%	1kHz/0.25V	2.90	2.32	0.29	0.37	0.32	0.39	221
VE4532-271K	270 \pm 10%	1kHz/0.25V	3.31	2.65	0.27	0.34	0.30	0.37	271
VE4532-331K	330 \pm 10%	1kHz/0.25V	6.92	5.54	0.24	0.30	0.20	0.24	331
VE4532-681M	680 \pm 20%	1kHz/0.25V	8.24	7.26	0.17	0.20	0.18	0.19	681

Typical Performance curves:

VE4532 Inductance vs DC Current Curve



VE4532 Temperature rise vs DC Current Curve



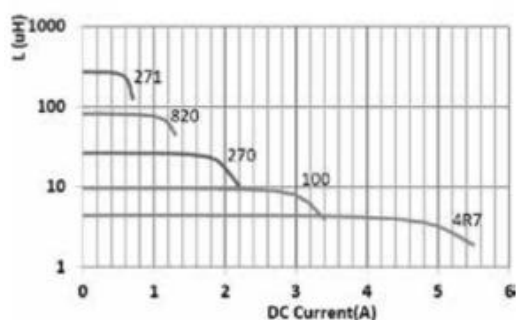
Electrical Characteristics

VE5830 Series

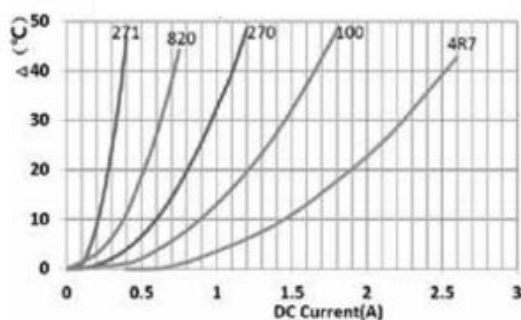
Part No.	L (uH)	Test Frequency	DCR (Ω)		Isat (A)		Irms (A)		Marking
			Max.	Typ.	Max.	Typ.	Max.	Typ.	
VE5830-1R0M	1.0 ± 20%	100kHz/0.25V	18m	13m	6.70	8.40	5.10	6.50	1R0
VE5830-1R2M	1.2 ± 20%	100kHz/0.25V	22m	16m	6.00	7.50	4.10	5.40	1R2
VE5830-1R5M	1.5 ± 20%	100kHz/0.25V	26m	19m	5.60	7.00	4.05	5.10	1R5
VE5830-1R8M	1.8 ± 20%	100kHz/0.25V	28m	21m	5.60	7.00	4.00	5.00	1R8
VE5830-2R2M	2.2 ± 20%	100kHz/0.25V	30m	26m	4.40	5.50	3.70	4.70	2R2
VE5830-2R7M	2.7 ± 20%	100kHz/0.25V	40m	31m	4.25	5.30	3.30	4.20	2R7
VE5830-3R3M	3.3 ± 20%	100kHz/0.25V	50m	35m	4.00	5.00	3.10	3.90	3R3
VE5830-3R9M	3.9 ± 20%	100kHz/0.25V	60m	38m	3.60	4.50	3.00	3.70	3R9
VE5830-4R7M	4.7 ± 20%	100kHz/0.25V	70m	51m	3.15	4.20	2.15	2.50	4R7
VE5830-5R6M	5.6 ± 20%	100kHz/0.25V	80m	60m	2.88	3.60	2.05	2.45	5R6
VE5830-6R8M	6.8 ± 20%	100kHz/0.25V	90m	65m	2.75	3.40	1.98	2.38	6R8
VE5830-8R2M	8.2 ± 20%	100kHz/0.25V	100m	70m	2.65	3.30	1.58	1.90	8R2
VE5830-100M	10 ± 20%	1kHz/0.25V	0.13	0.10	2.15	2.70	1.38	1.65	100
VE5830-120M	12 ± 20%	1kHz/0.25V	0.16	0.12	2.00	2.50	1.30	1.62	120
VE5830-150M	15 ± 20%	1kHz/0.25V	0.19	0.15	1.85	2.30	1.20	1.50	150
VE5830-180M	18 ± 20%	1kHz/0.25V	0.21	0.17	1.68	2.10	1.17	1.40	180
VE5830-220K	22 ± 10%	1kHz/0.25V	0.28	0.19	1.45	1.80	1.05	1.30	220
VE5830-270K	27 ± 10%	1kHz/0.25V	0.32	0.24	1.35	1.70	0.90	1.10	270
VE5830-330K	33 ± 10%	1kHz/0.25V	0.38	0.28	1.20	1.50	0.88	1.08	330
VE5830-390K	39 ± 10%	1kHz/0.25V	0.42	0.32	1.10	1.40	0.80	1.00	390
VE5830-470K	47 ± 10%	1kHz/0.25V	0.52	0.40	1.05	1.35	0.75	0.90	470
VE5830-560K	56 ± 10%	1kHz/0.25V	0.56	0.47	0.95	1.20	0.70	0.88	560
VE5830-680K	68 ± 10%	1kHz/0.25V	0.68	0.56	0.88	1.10	0.69	0.85	680
VE5830-820K	82 ± 10%	1kHz/0.25V	0.82	0.64	0.80	1.00	0.57	0.72	820
VE5830-101K	100 ± 10%	1kHz/0.25V	1.10	0.88	0.75	0.95	0.46	0.65	101
VE5830-121K	120 ± 10%	1kHz/0.25V	1.20	1.02	0.68	0.85	0.48	0.59	121
VE5830-151K	150 ± 10%	1kHz/0.25V	1.50	1.34	0.64	0.80	0.43	0.53	151
VE5830-181K	180 ± 10%	1kHz/0.25V	1.80	1.45	0.56	0.70	0.42	0.50	181
VE5830-221K	220 ± 10%	1kHz/0.25V	2.00	1.64	0.48	0.60	0.36	0.44	221
VE5830-271K	270 ± 10%	1kHz/0.25V	2.90	2.32	0.44	0.55	0.31	0.38	271
VE5830-331K	330 ± 10%	1kHz/0.25V	3.30	2.67	0.40	0.50	0.28	0.34	331
VE5830-391K	390 ± 10%	1kHz/0.25V	3.70	3.01	0.38	0.48	0.26	0.32	391
VE5830-471K	470 ± 10%	1kHz/0.25V	4.90	3.74	0.36	0.45	0.24	0.28	471

Typical Performance curves:

VE5830 Inductance vs DC Current Curve



VE5830 Temperature rise vs DC Current Curve



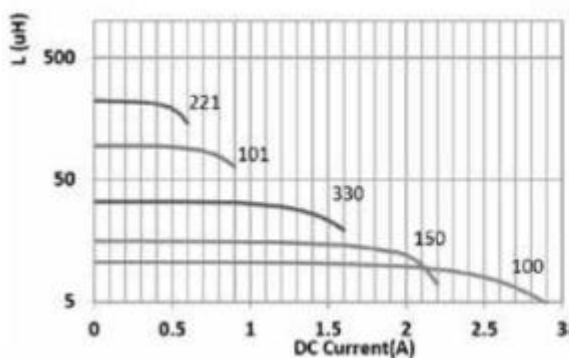
Electrical Characteristics

VE5845 Series

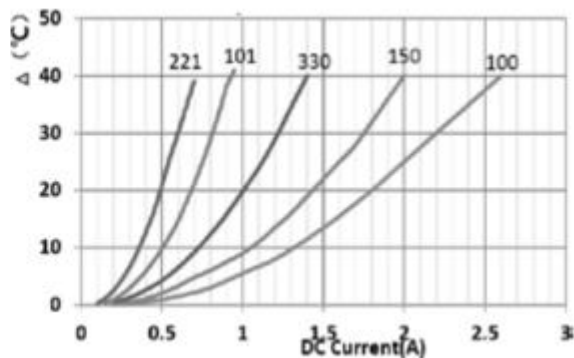
Part No.	L (uH)	Test Frequency	DCR (Ω)		Isat (A)		Irms (A)		Marking
			Max.	Typ.	Max.	Typ.	Max.	Typ.	
VE5845-1R0M	1.0±20%	100kHz/0.25V	12m	8.0m	3.52	4.40	4.40	5.50	1R0
VE5845-2R2M	2.2±20%	100kHz/0.25V	20m	15m	3.08	3.85	3.80	4.80	2R2
VE5845-3R3M	3.3±20%	100kHz/0.25V	30m	23m	2.88	3.60	3.60	4.50	3R3
VE5845-4R7M	4.7±20%	100kHz/0.25V	40m	32m	2.56	3.20	3.20	4.00	4R7
VE5845-6R8M	6.8±20%	100kHz/0.25V	50m	38m	1.80	2.25	2.20	2.80	6R8
VE5845-100M	10±20%	1kHz/0.25V	100m	60m	1.60	2.00	2.00	2.60	100
VE5845-120M	12±20%	1kHz/0.25V	120m	69m	1.44	1.80	1.80	2.20	120
VE5845-150M	15±20%	1kHz/0.25V	140m	81m	1.28	1.60	1.60	2.00	150
VE5845-180M	18±20%	1kHz/0.25V	150m	90m	1.16	1.45	1.56	1.90	180
VE5845-220M	22±20%	1kHz/0.25V	0.18	0.11	1.12	1.40	1.37	1.70	220
VE5845-270M	27±20%	1kHz/0.25V	0.20	0.13	1.04	1.30	1.20	1.50	270
VE5845-330K	33±10%	1kHz/0.25V	0.23	0.15	1.00	1.20	1.15	1.40	330
VE5845-390K	39±10%	1kHz/0.25V	0.32	0.21	0.85	1.05	1.10	1.35	390
VE5845-470K	47±10%	1kHz/0.25V	0.37	0.24	0.80	1.00	1.05	1.30	470
VE5845-560K	56±10%	1kHz/0.25V	0.42	0.27	0.72	0.90	0.95	1.20	560
VE5845-680K	68±10%	1kHz/0.25V	0.46	0.31	0.68	0.85	0.90	1.10	680
VE5845-820K	82±10%	1kHz/0.25V	0.60	0.40	0.64	0.80	0.80	1.00	820
VE5845-101K	100±10%	1kHz/0.25V	0.70	0.45	0.56	0.70	0.75	0.90	101
VE5845-121K	120±10%	1kHz/0.25V	0.93	0.52	0.52	0.65	0.70	0.85	121
VE5845-151K	150±10%	1kHz/0.25V	1.10	0.75	0.44	0.55	0.62	0.80	151
VE5845-181K	180±10%	1kHz/0.25V	1.38	0.90	0.40	0.50	0.58	0.75	181
VE5845-221K	220±10%	1kHz/0.25V	1.57	1.05	0.36	0.45	0.55	0.70	221
VE5845-271K	270±10%	1kHz/0.25V	1.65	1.25	0.33	0.41	0.50	0.65	271
VE5845-331K	330±10%	1kHz/0.25V	1.80	1.43	0.30	0.38	0.45	0.60	331
VE5845-471K	470±10%	1kHz/0.25V	2.90	2.25	0.12	0.15	0.2	0.25	471

Typical Performance curves:

VE5845 Inductance vs DC Current Curve



VE5845 Temperature rise vs DC Current Curve



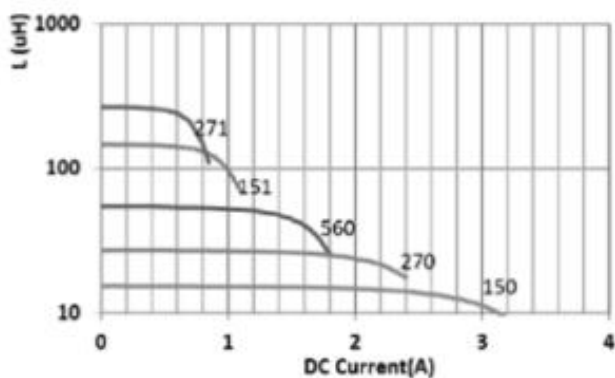
Electrical Characteristics

VE7835 Series

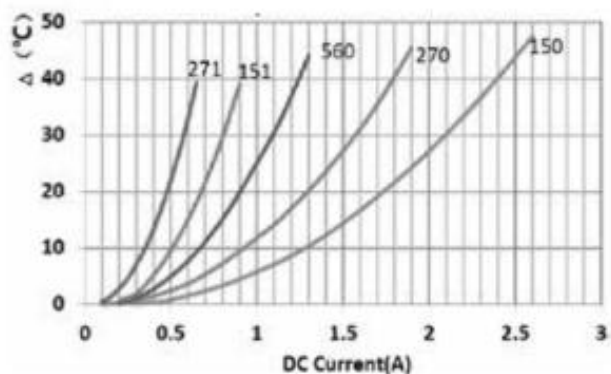
Part No.	L (μ H)	Test Frequency	DCR (Ω)		Isat (A)		Irms (A)		Marking
			Max.	Typ.	Max.	Typ.	Max.	Typ.	
VE7835-100K	10 \pm 10%	1kHz/0.25V	80m	45m	2.40	3.00	2.40	3.00	100
VE7835-120K	12 \pm 10%	1kHz/0.25V	90m	55m	2.15	2.70	2.35	2.80	120
VE7835-150K	15 \pm 10%	1kHz/0.25V	100m	71m	1.92	2.40	1.95	2.40	150
VE7835-180K	18 \pm 10%	1kHz/0.25V	110m	83m	1.85	2.30	1.80	2.25	180
VE7835-220K	22 \pm 10%	1kHz/0.25V	130m	94m	1.60	2.00	1.70	2.15	220
VE7835-270K	27 \pm 10%	1kHz/0.25V	0.15	0.12	1.52	1.90	1.45	1.80	270
VE7835-330K	33 \pm 10%	1kHz/0.25V	0.19	0.16	1.28	1.60	1.40	1.70	330
VE7835-390K	39 \pm 10%	1kHz/0.25V	0.22	0.18	1.24	1.55	1.30	1.60	390
VE7835-470K	47 \pm 10%	1kHz/0.25V	0.25	0.21	1.12	1.40	1.25	1.55	470
VE7835-560K	56 \pm 10%	1kHz/0.25V	0.28	0.24	1.08	1.35	1.00	1.25	560
VE7835-680K	68 \pm 10%	1kHz/0.25V	0.33	0.31	0.92	1.15	0.95	1.20	680
VE7835-820K	82 \pm 10%	1kHz/0.25V	0.46	0.38	0.84	1.05	0.90	1.10	820
VE7835-101K	100 \pm 10%	1kHz/0.25V	0.48	0.41	0.78	0.98	0.88	1.08	101
VE7835-121K	120 \pm 10%	1kHz/0.25V	0.54	0.46	0.72	0.90	0.85	1.05	121
VE7835-151K	150 \pm 10%	1kHz/0.25V	0.76	0.63	0.60	0.75	0.75	0.90	151
VE7835-181K	180 \pm 10%	1kHz/0.25V	1.02	0.83	0.56	0.70	0.62	0.75	181
VE7835-221K	220 \pm 10%	1kHz/0.25V	1.20	0.98	0.52	0.65	0.58	0.70	221
VE7835-271K	270 \pm 10%	1kHz/0.25V	1.31	1.08	0.48	0.60	0.52	0.65	271
VE7835-331K	330 \pm 10%	1kHz/0.25V	1.50	1.26	0.44	0.55	0.51	0.62	331

Typical Performance curves:

VE7835 Inductance vs DC Current Curve



VE7835 Temperature rise vs DC Current Curve



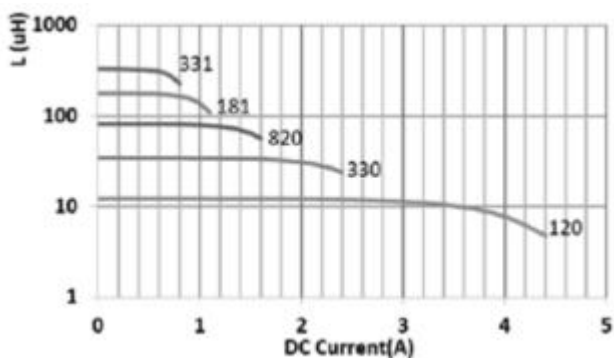
Electrical Characteristics

VE7850 Series

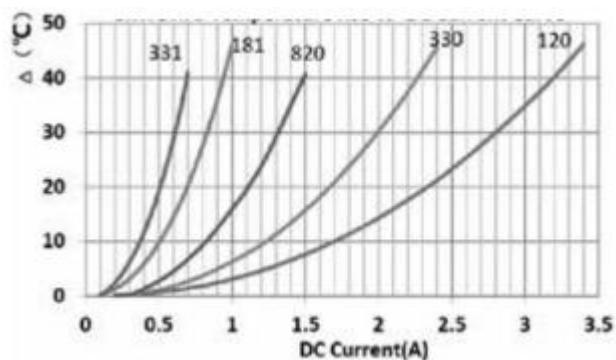
Part No.	L (μ H)	Test Frequency	DCR (Ω)		Isat (A)		Irms (A)		Marking
			Max.	Typ.	Max.	Typ.	Max.	Typ.	
VE7850-100K	10 \pm 10%	1kHz/0.25V	70m	33m	2.88	3.60	3.20	3.80	100
VE7850-120K	12 \pm 10%	1kHz/0.25V	80m	46m	2.56	3.20	2.60	3.20	120
VE7850-150K	15 \pm 10%	1kHz/0.25V	90m	53m	2.25	2.80	2.55	3.10	150
VE7850-180K	18 \pm 10%	1kHz/0.25V	100m	59m	2.08	2.60	2.25	2.80	180
VE7850-220K	22 \pm 10%	1kHz/0.25V	110m	70m	1.95	2.40	2.10	2.60	220
VE7850-270K	27 \pm 10%	1kHz/0.25V	120m	87m	1.75	2.20	1.98	2.40	270
VE7850-330K	33 \pm 10%	1kHz/0.25V	0.13	0.10	1.52	1.90	1.82	2.25	330
VE7850-390K	39 \pm 10%	1kHz/0.25V	0.16	0.12	1.44	1.80	1.62	2.00	390
VE7850-470K	47 \pm 10%	1kHz/0.25V	0.18	0.14	1.28	1.60	1.50	1.90	470
VE7850-560K	56 \pm 10%	1kHz/0.25V	0.24	0.17	1.20	1.50	1.43	1.80	560
VE7850-680K	68 \pm 10%	1kHz/0.25V	0.28	0.20	1.12	1.40	1.30	1.60	680
VE7850-820K	82 \pm 10%	1kHz/0.25V	0.37	0.23	1.04	1.30	1.23	1.50	820
VE7850-101K	100 \pm 10%	1kHz/0.25V	0.43	0.28	0.92	1.15	1.08	1.32	101
VE7850-121K	120 \pm 10%	1kHz/0.25V	0.47	0.35	0.80	1.00	0.99	1.20	121
VE7850-151K	150 \pm 10%	1kHz/0.25V	0.64	0.40	0.72	0.90	0.90	1.10	151
VE7850-181K	180 \pm 10%	1kHz/0.25V	0.71	0.53	0.68	0.85	0.76	0.94	181
VE7850-221K	220 \pm 10%	1kHz/0.25V	0.96	0.61	0.64	0.80	0.70	0.85	221
VE7850-271K	270 \pm 10%	1kHz/0.25V	1.11	0.72	0.56	0.70	0.65	0.80	271
VE7850-331K	330 \pm 10%	1kHz/0.25V	1.26	0.95	0.52	0.65	0.58	0.70	331
VE7850-391K	390 \pm 10%	1kHz/0.25V	1.77	1.28	0.44	0.55	0.49	0.60	391
VE7850-471K	470 \pm 10%	1kHz/0.25V	1.96	1.46	0.40	0.50	0.47	0.58	471

Typical Performance curves:

VE7850 Inductance vs DC Current Curve



VE7850 Temperature rise vs DC Current Curve



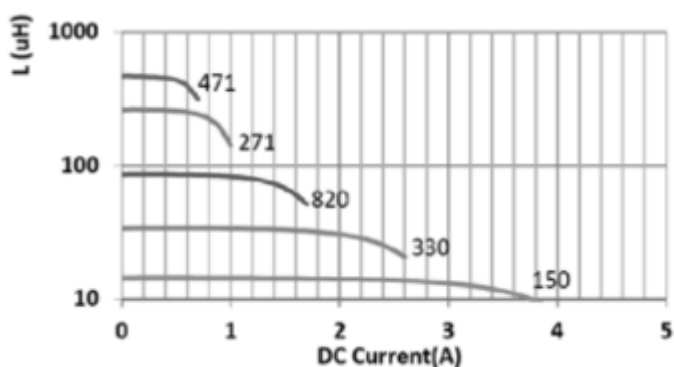
Electrical Characteristics

VE1040 Series

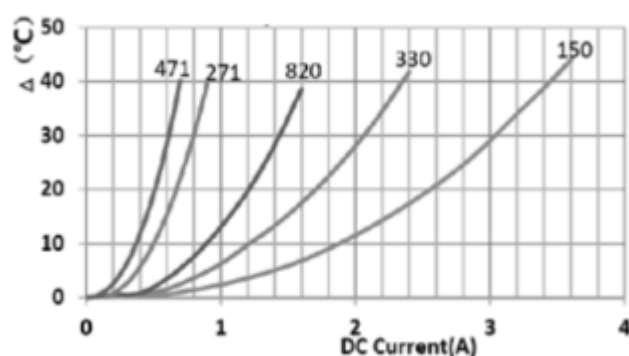
Part No.	L (μ H)	Test Frequency	DCR (Ω)		Isat (A)		Irms (A)		Marking
			Max.	Typ.	Max.	Typ.	Max.	Typ.	
VE1040-100M	10 \pm 20%	1kHz/0.25V	53m	30m	2.90	3.60	3.50	4.30	100
VE1040-120M	12 \pm 20%	1kHz/0.25V	61m	37m	2.55	3.20	2.90	3.60	120
VE1040-150M	15 \pm 20%	1kHz/0.25V	70m	44m	2.40	3.00	2.80	3.48	150
VE1040-180M	18 \pm 20%	1kHz/0.25V	81m	52m	2.10	2.60	2.58	3.20	180
VE1040-220M	22 \pm 20%	1kHz/0.25V	90m	66m	1.90	2.40	2.40	2.98	220
VE1040-270M	27 \pm 20%	1kHz/0.25V	100m	84m	1.65	2.10	2.00	2.55	270
VE1040-330M	33 \pm 20%	1kHz/0.25V	0.12	0.10	1.60	2.00	1.90	2.38	330
VE1040-390M	39 \pm 20%	1kHz/0.25V	0.15	0.11	1.44	1.80	1.80	2.20	390
VE1040-470M	47 \pm 20%	1kHz/0.25V	0.17	0.14	1.35	1.70	1.59	1.95	470
VE1040-560K	56 \pm 10%	1kHz/0.25V	0.20	0.16	1.20	1.50	1.50	1.82	560
VE1040-680K	68 \pm 10%	1kHz/0.25V	0.22	0.19	1.15	1.40	1.40	1.62	680
VE1040-820K	82 \pm 10%	1kHz/0.25V	0.25	0.22	1.00	1.20	1.35	1.60	820
VE1040-101K	100 \pm 10%	1kHz/0.25V	0.34	0.26	0.88	1.10	1.20	1.48	101
VE1040-121K	120 \pm 10%	1kHz/0.25V	0.40	0.30	0.80	1.00	1.10	1.38	121
VE1040-151K	150 \pm 10%	1kHz/0.25V	0.54	0.38	0.75	0.90	0.99	1.20	151
VE1040-181K	180 \pm 10%	1kHz/0.25V	0.62	0.44	0.64	0.80	0.90	1.10	181
VE1040-221K	220 \pm 10%	1kHz/0.25V	0.72	0.58	0.60	0.75	0.80	0.98	221
VE1040-271K	270 \pm 10%	1kHz/0.25V	0.95	0.68	0.56	0.70	0.75	0.90	271
VE1040-331K	330 \pm 10%	1kHz/0.25V	1.10	0.88	0.52	0.65	0.64	0.78	331
VE1040-391K	390 \pm 10%	1kHz/0.25V	1.25	0.99	0.48	0.60	0.60	0.75	391
VE1040-471K	470 \pm 10%	1kHz/0.25V	1.53	1.13	0.40	0.50	0.57	0.70	471
VE1040-561K	560 \pm 10%	1kHz/0.25V	1.90	1.40	0.35	0.45	0.50	0.63	561

Typical Performance curves:

VE1040 Inductance vs DC Current Curve



VE1040 Temperature rise vs DC Current Curve



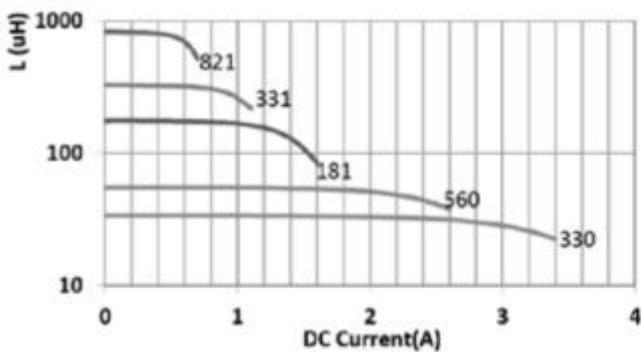
Electrical Characteristics

VE1054 Series

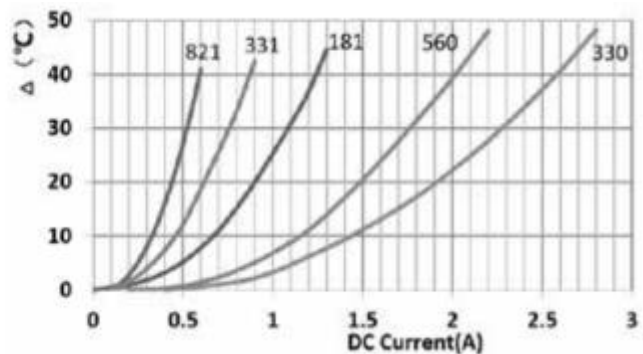
Part No.	L(μ H)	Test Frequency	DCR(Ω)		Isat(A)		Irms(A)		Marking
			Max.	Typ.	Max.	Typ.	Max.	Typ.	
VE1054-100M	10 \pm 20%	1kHz/0.25V	60m	26m	4.00	5.00	4.00	4.50	100
VE1054-120M	12 \pm 20%	1kHz/0.25V	70m	31m	3.50	4.40	3.50	4.25	120
VE1054-150M	15 \pm 20%	1kHz/0.25V	80m	36m	3.05	3.80	2.70	3.48	150
VE1054-180K	18 \pm 10%	1kHz/0.25V	90m	46m	3.00	3.60	2.40	3.10	180
VE1054-220M	22 \pm 20%	1kHz/0.25V	100m	52m	2.55	3.20	2.38	2.95	220
VE1054-270M	27 \pm 20%	1kHz/0.25V	110m	62m	2.25	2.80	2.25	2.80	270
VE1054-330M	33 \pm 20%	1kHz/0.25V	120m	74m	2.10	2.60	2.15	2.60	330
VE1054-390M	39 \pm 20%	1kHz/0.25V	140m	93m	2.00	2.50	2.00	2.40	390
VE1054-470K	47 \pm 10%	1kHz/0.25V	0.17	0.10	1.95	2.40	1.80	2.20	470
VE1054-560K	56 \pm 10%	1kHz/0.25V	0.19	0.12	1.70	2.10	1.62	2.02	560
VE1054-680K	68 \pm 10%	1kHz/0.25V	0.22	0.15	1.50	1.90	1.58	1.97	680
VE1054-820K	82 \pm 10%	1kHz/0.25V	0.25	0.18	1.35	1.70	1.30	1.60	820
VE1054-101K	100 \pm 10%	1kHz/0.25V	0.35	0.21	1.20	1.50	1.28	1.58	101
VE1054-121K	120 \pm 10%	1kHz/0.25V	0.40	0.24	1.15	1.40	1.15	1.45	121
VE1054-151K	150 \pm 10%	1kHz/0.25V	0.47	0.30	1.05	1.30	1.10	1.39	151
VE1054-181K	180 \pm 10%	1kHz/0.25V	0.63	0.36	0.88	1.10	1.00	1.25	181
VE1054-221K	220 \pm 10%	1kHz/0.25V	0.73	0.45	0.85	1.05	0.96	1.18	221
VE1054-271K	270 \pm 10%	1kHz/0.25V	0.97	0.56	0.80	1.00	0.82	1.00	271
VE1054-331K	330 \pm 10%	1kHz/0.25V	1.15	0.65	0.76	0.95	0.70	0.89	331
VE1054-391K	390 \pm 10%	1kHz/0.25V	1.30	0.75	0.65	0.80	0.65	0.80	391
VE1054-471K	470 \pm 10%	1kHz/0.25V	1.48	0.93	0.56	0.70	0.62	0.78	471
VE1054-561K	560 \pm 10%	1kHz/0.25V	1.90	1.10	0.52	0.65	0.60	0.74	561
VE1054-681K	680 \pm 10%	1kHz/0.25V	2.25	1.30	0.48	0.60	0.54	0.65	681
VE1054-821K	820 \pm 10%	1kHz/0.25V	2.55	1.65	0.44	0.55	0.49	0.60	821

Typical Performance curves:

VE1054 Inductance vs DC Current Curve



VE1054 Temperature rise vs DC Current Curve



Supplier Information

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Manufacturer:


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