

Wire Wound SMD Power Inductors—VENR Series

Applications:

- Smart phone, smart TV, set top box, notebook.
- Car navigation systems, telecomm base stations.
- VR, AR.
- LED lighting.

Features :

- Magnetic-resin shielded construction reduces buzz noise to ultra-low levels.
- Metallization on ferrite core results in excellent shock resistance and damage-free durability.
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI).
- 30% higher current rating than conventional inductors of equal size.
- Takes up less PCB real estate and save more power.

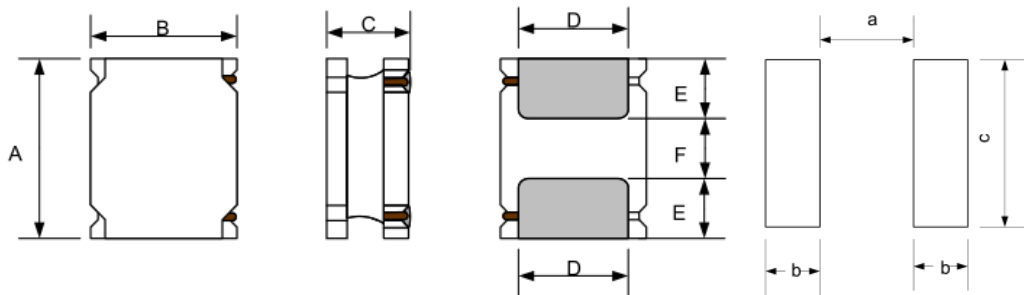


Product Identification :

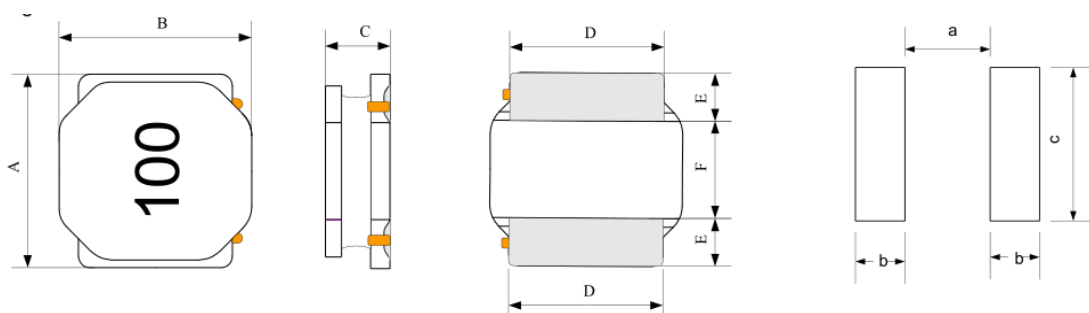
VENR 4030 - 100 M
 (1) (2) (3) (4)

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

Dimensions in (mm)

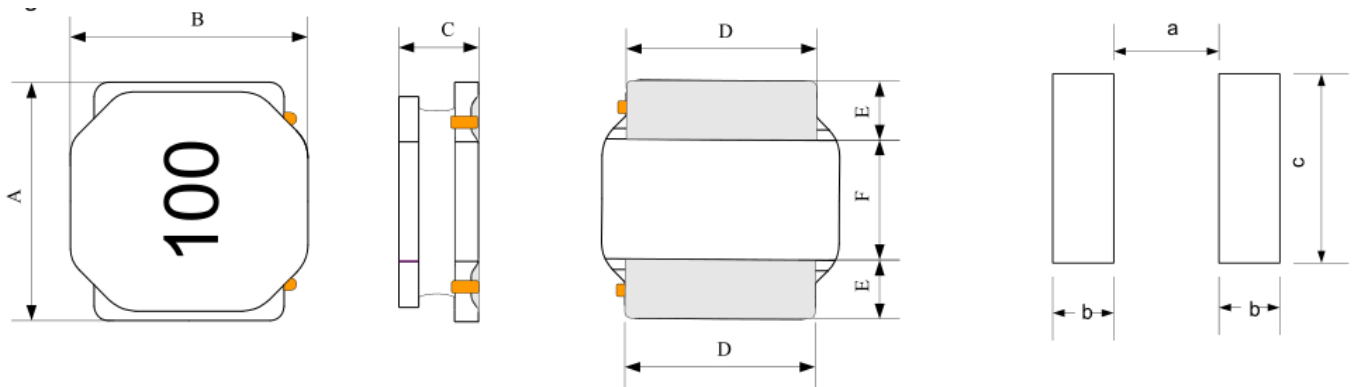


Item	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
VENR2510	2.5 ± 0.1	2.0 ± 0.1	1.0Max.	2.0 ± 0.2	0.80 ± 0.2	0.80 ± 0.2	0.80	0.85	2.0
VENR2512	2.5 ± 0.1	2.0 ± 0.1	1.2Max.	2.0 ± 0.2	0.80 ± 0.2	0.80 ± 0.2	0.80	0.85	2.0



Item	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
VENR3010	3.0 ± 0.2	3.0 ± 0.2	1.0Max.	2.5 ± 0.2	0.75 ± 0.2	1.5 ± 0.2	1.5	0.8	2.7
VENR3012	3.0 ± 0.2	3.0 ± 0.2	1.2Max.	2.5 ± 0.2	0.75 ± 0.2	1.5 ± 0.2	1.5	0.8	2.7
VENR3015	3.0 ± 0.2	3.0 ± 0.2	1.5Max.	2.5 ± 0.2	0.75 ± 0.2	1.5 ± 0.2	1.5	0.8	2.7
VENR4012	4.0 ± 0.2	4.0 ± 0.2	1.2Max.	3.3 ± 0.2	0.95 ± 0.2	2.1 ± 0.2	1.9	1.1	3.7
VENR4018	4.0 ± 0.2	4.0 ± 0.2	1.8Max.	3.3 ± 0.2	0.95 ± 0.2	2.1 ± 0.2	1.9	1.1	3.7
VENR4020	4.0 ± 0.2	4.0 ± 0.2	2.0Max.	3.3 ± 0.2	0.95 ± 0.2	2.1 ± 0.2	1.9	1.1	3.7
VENR4030	4.0 ± 0.2	4.0 ± 0.2	3.0Max.	3.3 ± 0.2	0.95 ± 0.2	2.1 ± 0.2	1.9	1.1	3.7

Dimensions in (mm)



Item	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
VENR5012	5.0 ± 0.2	5.0 ± 0.2	1.2Max.	4.0 ± 0.2	1.25 ± 0.2	2.5 ± 0.2	2.3	1.4	4.2
VENR5020	5.0 ± 0.2	5.0 ± 0.2	2.0Max.	4.0 ± 0.2	1.25 ± 0.2	2.5 ± 0.2	2.3	1.4	4.2
VENR5040	5.0 ± 0.2	5.0 ± 0.2	4.0Max.	4.0 ± 0.2	1.25 ± 0.2	2.5 ± 0.2	2.3	1.4	4.2
VENR6020	6.0 ± 0.3	6.0 ± 0.3	2.0Max.	4.9 ± 0.3	1.55 ± 0.3	2.9 ± 0.3	2.8	1.7	5.7
VENR6028	6.0 ± 0.3	6.0 ± 0.3	2.8Max.	4.9 ± 0.3	1.55 ± 0.3	2.9 ± 0.3	2.8	1.7	5.7
VENR6045	6.0 ± 0.3	6.0 ± 0.3	4.5Max.	4.9 ± 0.3	1.55 ± 0.3	2.9 ± 0.3	2.8	1.7	5.7
VENR8040	8.0 ± 0.3	8.0 ± 0.3	4.2Max.	6.3 ± 0.3	2.00 ± 0.3	4.0 ± 0.3	3.8	2.2	7.5

Characteristics :

- Saturation Current (I_{sat}): The current when the inductance becomes 30% lower than its initial value. ($T_a = 20^\circ\text{C}$).
- Temperature Rise Current (I_{rms}): The current when the temperature of coil increases up to $\max. \Delta T = 40^\circ\text{C}$. ($T_a = 20^\circ\text{C}$)
- Operating temperature : $-40^\circ\text{C} \sim +125^\circ\text{C}$.
- Storage temperature range (packaging conditions) : $-5^\circ\text{C} \sim +30^\circ\text{C}$ and RH 70% (Max.)

Test equipments :

- L&Q: HP 4285A or WK3260B, VR116/VR7210.
- DCR: Milli-ohm meter, VR131.
- Electrical specifications at 25°C .
- Rated current: I_{sat} or I_{rms} , whichever is smaller.
- I_{sat} : DC current at which the inductance drops approximate 30% from its value without current.
- I_{rms} : DC current that causes the temperature rise ($\Delta T = 40^\circ\text{C}$) from 20°C ambient.

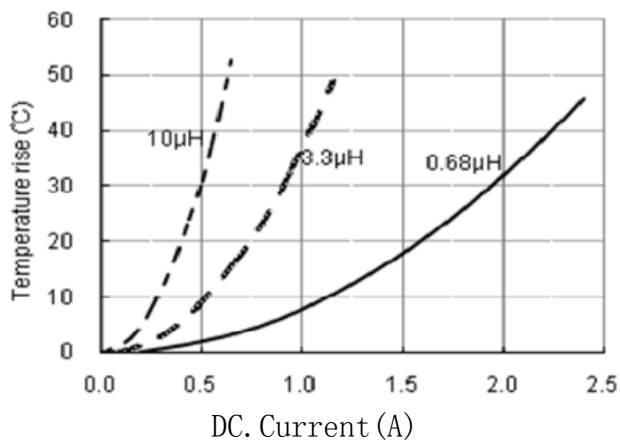
Electrical Characteristics

VENR2510 Series

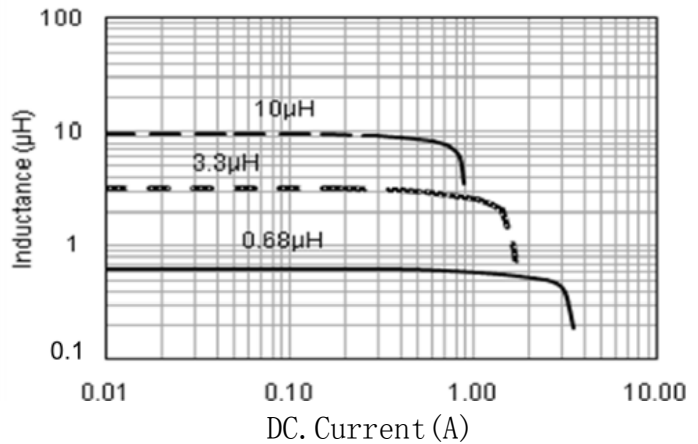
Part No.	Inductance	S. R. F	RDC		Isat		Irms		Marking
	100kHz/0.25V	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	
	μH	MHz	Ω	Ω	A	A	A	A	
VENR2510-R47N	$0.47 \pm 30\%$	206	0.056	0.047	2.50	3.35	2.35	2.56	/
VENR2510-R56N	$0.56 \pm 30\%$	160	0.072	0.060	2.90	3.20	2.00	2.18	/
VENR2510-R68N	$0.68 \pm 30\%$	129	0.074	0.062	2.20	2.75	2.00	2.18	/
VENR2510-1R0N	$1.0 \pm 30\%$	100	0.108	0.090	1.85	2.20	1.65	1.80	/
VENR2510-1R5N	$1.5 \pm 30\%$	81	0.182	0.152	1.80	2.10	1.30	1.42	/
VENR2510-2R2N	$2.2 \pm 30\%$	61	0.209	0.174	1.20	1.60	1.20	1.31	/
VENR2510-3R3M	$3.3 \pm 20\%$	47	0.328	0.273	1.05	1.30	0.90	0.98	/
VENR2510-4R7M	$4.7 \pm 20\%$	42	0.563	0.469	0.95	1.15	0.70	0.76	/
VENR2510-5R6M	$5.6 \pm 20\%$	35	0.563	0.469	0.80	0.95	0.73	0.80	/
VENR2510-6R8M	$6.8 \pm 20\%$	31	0.896	0.747	0.78	0.92	0.59	0.64	/
VENR2510-100M	$10 \pm 20\%$	27	1.092	0.910	0.3	0.3	0.3	0.3	/

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



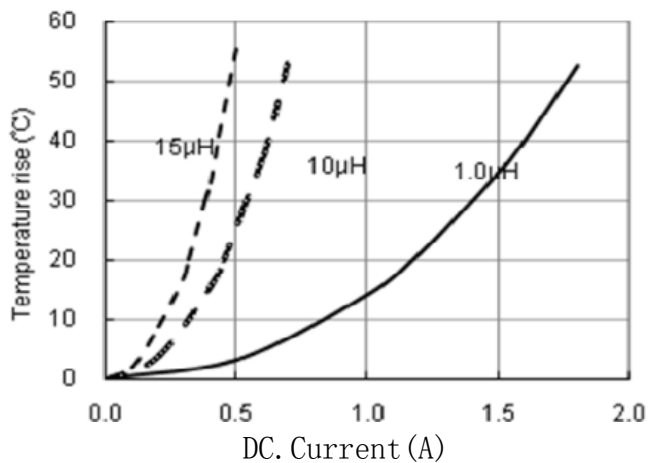
Electrical Characteristics

VENR2512 Series

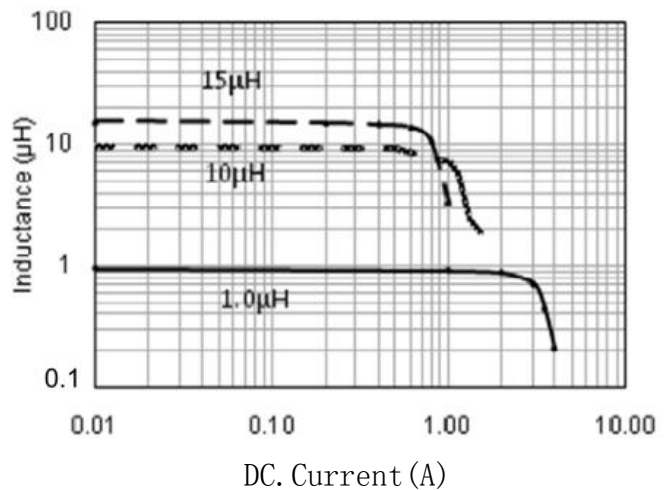
Part No.	Inductance	S. R. F	RDC		Isat		I _{rms}		Marking
	100kHz/0.25V	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	
	uH	MHz	Ω	Ω	A	A	A	A	
VENR2512-R47N	0.47±30%	160	0.061	0.047	3.82	4.27	2.15	2.34	/
VENR2512-R68N	0.68±30%	140	0.074	0.057	3.28	3.68	1.95	2.13	/
VENR2512-1R0N	1.0±30%	110	0.090	0.069	2.59	2.90	1.93	2.10	/
VENR2512-1R2N	1.2±30%	100	0.129	0.099	2.38	2.67	1.46	1.59	/
VENR2512-1R5N	1.5±30%	97	0.147	0.113	2.24	2.51	1.40	1.53	/
VENR2512-2R2N	2.2±30%	69	0.216	0.166	1.85	2.07	1.15	1.25	/
VENR2512-2R7M	2.7±20%	63	0.239	0.184	1.72	1.92	1.09	1.19	/
VENR2512-3R3M	3.3±20%	62	0.264	0.203	1.61	1.80	1.04	1.13	/
VENR2512-3R6M	3.6±20%	53	0.348	0.268	1.46	1.64	0.90	0.98	/
VENR2512-4R3M	4.3±20%	51	0.377	0.290	1.37	1.53	0.87	0.95	/
VENR2512-4R7M	4.7±20%	47	0.377	0.290	1.12	1.25	0.84	0.92	/
VENR2512-5R1M	5.1±20%	44	0.500	0.385	1.23	1.37	0.75	0.82	/
VENR2512-5R6M	5.6±20%	38	0.538	0.414	1.11	1.25	0.73	0.80	/
VENR2512-6R2M	6.2±20%	38	0.542	0.417	1.03	1.16	0.73	0.80	/
VENR2512-6R8M	6.8±20%	38	0.581	0.447	0.98	1.09	0.69	0.75	/
VENR2512-7R5M	7.5±20%	36	0.611	0.470	0.97	1.09	0.68	0.74	/
VENR2512-8R2M	8.2±20%	35	0.658	0.506	0.98	1.10	0.65	0.71	/
VENR2512-9R1M	9.1±20%	34	0.690	0.531	0.91	1.02	0.62	0.68	/
VENR2512-100M	10±20%	34	0.690	0.531	0.79	0.88	0.62	0.68	/
VENR2512-120M	12±20%	28	1.075	0.827	0.78	0.88	0.51	0.56	/
VENR2512-150M	15±20%	25	1.591	1.224	0.68	0.77	0.42	0.46	/
VENR2512-220M	22±20%	20	1.976	1.520	0.53	0.59	0.38	0.41	/

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



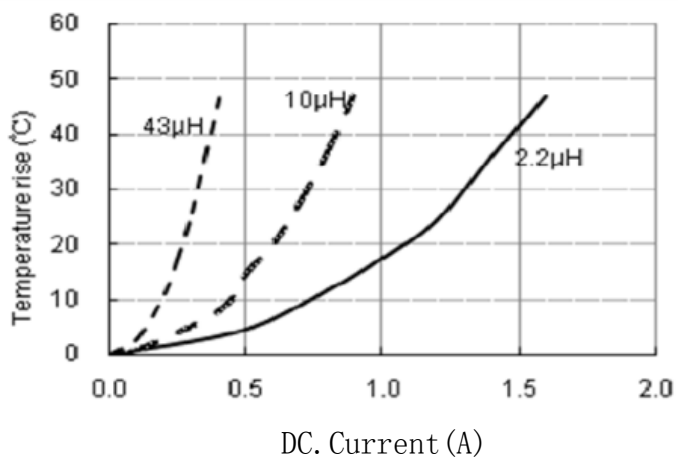
Electrical Characteristics

VENR3010 Series

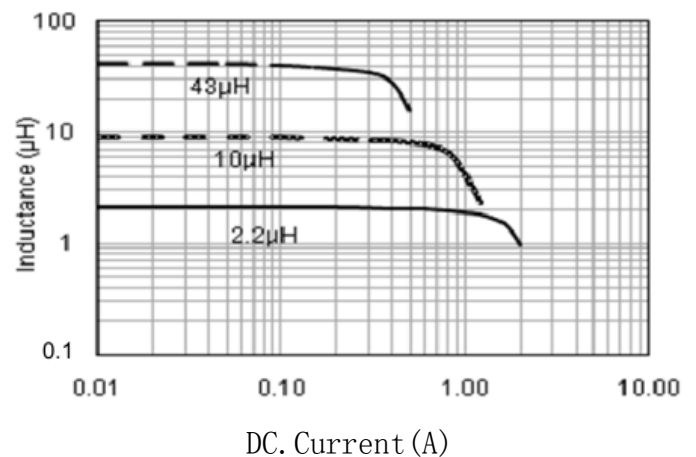
Part No.	Inductance	S. R. F	RDC		Isat		Irms		Marking
	100kHz/0.25V	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	
	uH	MHz	Ω	Ω	A	A	A	A	
VENR3010-1R0N	1.0 ± 30%	180	0.085	0.065	1.40	2.10	1.45	1.80	1R0
VENR3010-1R2N	1.2 ± 30%	137	0.085	0.065	1.25	1.70	1.45	1.80	1R2
VENR3010-1R5N	1.5 ± 30%	120	0.104	0.080	1.27	1.70	1.30	1.60	1R5
VENR3010-2R2N	2.2 ± 30%	100	0.143	0.110	1.15	1.50	1.09	1.40	2R2
VENR3010-2R7N	2.7 ± 30%	90	0.169	0.130	1.00	1.20	1.02	1.40	2R7
VENR3010-3R6M	3.6 ± 20%	67	0.215	0.165	0.95	1.20	0.90	1.10	3R6
VENR3010-4R7M	4.7 ± 20%	59	0.293	0.225	0.75	1.05	0.77	1.10	4R7
VENR3010-5R6M	5.6 ± 20%	40	0.322	0.248	0.58	0.65	0.70	1.05	5R6
VENR3010-6R8M	6.8 ± 20%	42	0.397	0.305	0.55	0.72	0.66	0.96	6R8
VENR3010-8R2M	8.2 ± 20%	23	0.520	0.40	0.55	0.70	0.58	0.70	8R2
VENR3010-100M	10 ± 20%	39	0.520	0.40	0.55	0.75	0.58	0.70	100
VENR3010-120M	12 ± 20%	36	0.657	0.505	0.43	0.65	0.52	0.67	120
VENR3010-150M	15 ± 20%	30	0.793	0.610	0.42	0.57	0.47	0.57	150
VENR3010-220M	22 ± 20%	28	1.209	0.930	0.35	0.48	0.38	0.52	220
VENR3010-270M	27 ± 20%	25	1.404	1.080	0.30	0.45	0.35	0.50	270
VENR3010-330M	33 ± 20%	18	2.015	1.550	0.29	0.42	0.30	0.55	330
VENR3010-390M	39 ± 20%	18	2.275	1.750	0.28	0.38	0.28	0.53	390
VENR3010-430M	43 ± 20%	18	2.340	1.80	0.23	0.36	0.27	0.52	430
VENR3010-470M	47 ± 20%	18	2.535	1.950	0.22	0.35	0.26	0.52	470
VENR3010-510M	51 ± 20%	18	2.860	2.20	0.21	0.33	0.25	0.48	510
VENR3010-560M	56 ± 20%	16	3.016	2.320	0.21	0.28	0.24	0.35	560

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



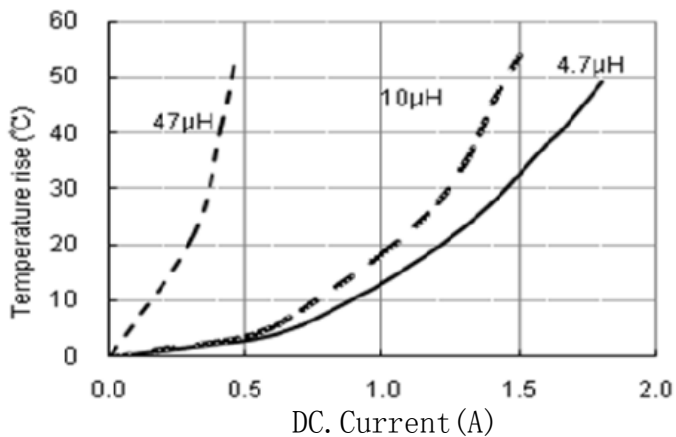
Electrical Characteristics

VENR3012 Series

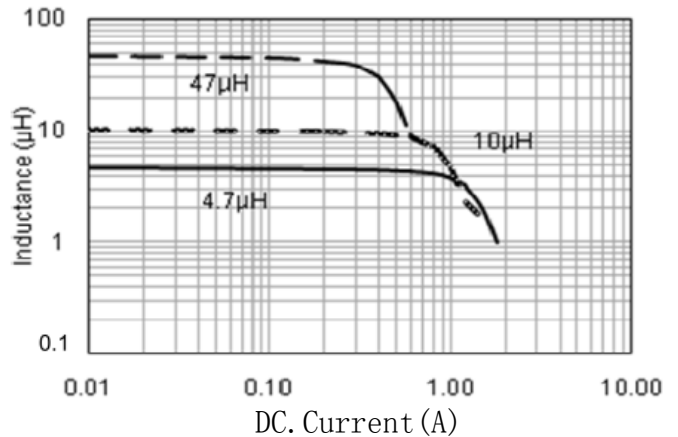
Part No.	Inductance	S. R. F	RDC		Isat		Irms		Marking
	100kHz/0.25V	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	
	uH	MHz	Ω	Ω	A	A	A	A	
VENR3012-R22N	0.22 ± 30%	321	0.022	0.017	5.30	6.00	3.00	3.30	R22
VENR3012-1R0N	1.0 ± 30%	120	0.052	0.040	1.87	2.80	2.20	2.70	1R0
VENR3012-1R2N	1.2 ± 30%	120	0.059	0.045	2.22	2.50	2.01	2.20	1R2
VENR3012-1R5N	1.5 ± 30%	110	0.059	0.045	1.62	1.90	2.01	2.20	1R5
VENR3012-1R8N	1.8 ± 30%	90	0.082	0.063	1.30	1.90	1.65	1.80	1R8
VENR3012-2R2N	2.2 ± 30%	84	0.098	0.075	1.20	1.90	1.55	1.70	2R2
VENR3012-2R7N	2.7 ± 30%	65	0.110	0.085	1.14	1.50	1.48	1.50	2R7
VENR3012-3R3M	3.3 ± 20%	64	0.130	0.10	1.05	1.50	1.36	1.40	3R3
VENR3012-3R9M	3.9 ± 20%	61	0.189	0.145	1.00	1.30	1.24	1.30	3R9
VENR3012-4R7M	4.7 ± 20%	61	0.156	0.120	0.90	1.00	1.24	1.30	4R7
VENR3012-5R6M	5.6 ± 20%	61	0.226	0.174	0.80	1.10	1.13	1.24	5R6
VENR3012-6R8M	6.8 ± 20%	61	0.247	0.190	0.75	0.90	0.98	1.10	6R8
VENR3012-100M	10 ± 20%	42	0.345	0.265	0.60	0.88	0.83	0.90	100
VENR3012-120M	12 ± 20%	32	0.449	0.345	0.48	0.67	0.73	0.84	120
VENR3012-150M	15 ± 20%	27	0.468	0.360	0.45	0.62	0.71	0.77	150
VENR3012-180M	18 ± 20%	25	0.709	0.545	0.43	0.59	0.58	0.65	180
VENR3012-220M	22 ± 20%	23	0.839	0.645	0.42	0.52	0.53	0.59	220
VENR3012-270M	27 ± 20%	21	1.131	0.870	0.35	0.48	0.47	0.51	270
VENR3012-330M	33 ± 20%	18	1.138	0.875	0.36	0.46	0.46	0.50	330
VENR3012-360M	36 ± 20%	18	1.235	0.950	0.34	0.44	0.44	0.48	360
VENR3012-390M	39 ± 20%	18	1.729	1.330	0.30	0.39	0.37	0.41	390
VENR3012-470M	47 ± 20%	14	1.885	1.450	0.27	0.35	0.35	0.40	470
VENR3012-560M	56 ± 20%	9	1.794	1.380	0.26	0.33	0.28	0.40	560
VENR3012-680M	68 ± 20%	7	2.171	1.670	0.24	0.29	0.33	0.37	680

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



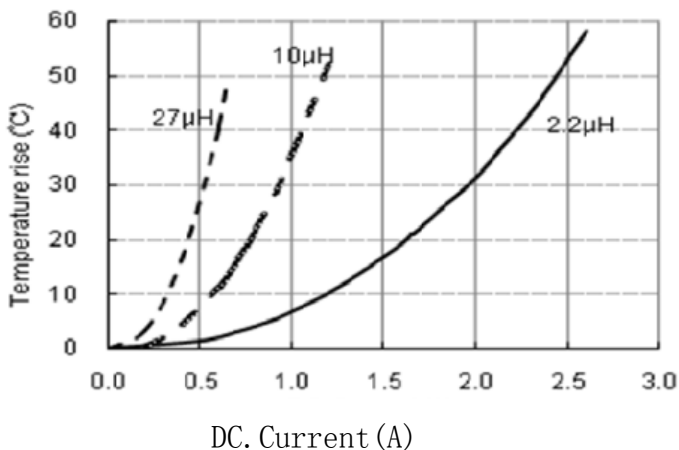
Electrical Characteristics

VENR3015 Series

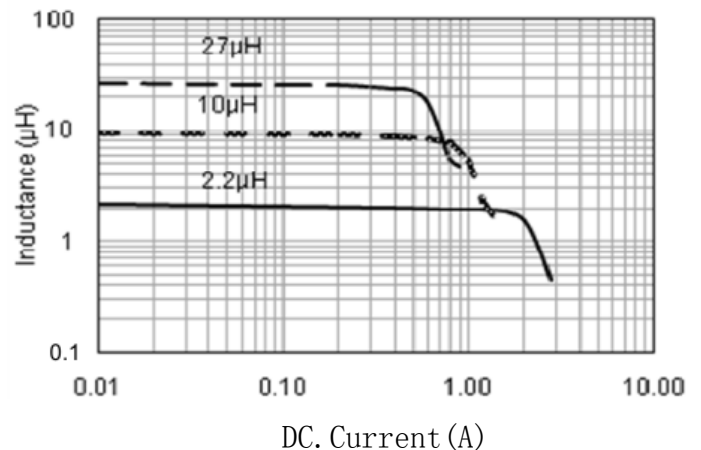
Part No.	Inductance	S. R. F	RDC		Isat		Irms		Marking
	100kHz/0.25V	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	
	uH	MHz	Ω	Ω	A	A	A	A	
VENR3015-1R0N	1.0 ± 30%	150	0.039	0.030	2.32	2.80	2.35	2.50	1R0
VENR3015-1R2N	1.2 ± 30%	110	0.052	0.040	2.21	3.10	1.95	2.30	1R2
VENR3015-1R5N	1.5 ± 30%	100	0.065	0.050	2.30	2.70	1.70	2.20	1R5
VENR3015-1R8N	1.8 ± 30%	92	0.065	0.050	1.75	2.20	1.70	2.20	1R8
VENR3015-2R2N	2.2 ± 30%	86	0.078	0.060	1.60	2.00	1.60	2.00	2R2
VENR3015-2R7N	2.7 ± 30%	64	0.098	0.075	1.52	1.90	1.43	1.90	2R7
VENR3015-3R3M	3.3 ± 20%	68	0.104	0.080	1.32	1.81	1.36	1.60	3R3
VENR3015-3R6M	3.6 ± 20%	59	0.137	0.105	1.28	1.60	1.20	1.50	3R6
VENR3015-3R9M	3.9 ± 20%	47	0.137	0.105	1.20	1.40	1.20	1.50	3R9
VENR3015-4R3M	4.3 ± 20%	53	0.150	0.115	1.20	1.40	1.14	1.30	4R3
VENR3015-4R7M	4.7 ± 20%	46	0.163	0.125	1.10	1.40	1.09	1.30	4R7
VENR3015-5R1M	5.1 ± 20%	49	0.173	0.133	1.00	1.20	1.05	1.20	5R1
VENR3015-6R8M	6.8 ± 20%	39	0.260	0.20	0.85	1.10	0.85	1.10	6R8
VENR3015-100M	10 ± 20%	41	0.325	0.250	0.72	0.92	0.77	0.90	100
VENR3015-120M	12 ± 20%	32	0.416	0.320	0.70	0.90	0.68	0.89	120
VENR3015-150M	15 ± 20%	30	0.455	0.350	0.66	0.88	0.65	0.72	150
VENR3015-180M	18 ± 20%	23	0.559	0.430	0.56	0.72	0.59	0.72	180
VENR3015-220M	22 ± 20%	23	0.598	0.460	0.52	0.68	0.57	0.69	220
VENR3015-270M	27 ± 20%	22	0.949	0.730	0.48	0.56	0.45	0.56	270
VENR3015-330M	33 ± 20%	20	1.066	0.820	0.44	0.53	0.43	0.51	330
VENR3015-390M	39 ± 20%	14	1.294	0.995	0.41	0.55	0.39	0.44	390
VENR3015-470M	47 ± 20%	14	1.625	1.250	0.35	0.43	0.35	0.44	470
VENR3015-560M	56 ± 20%	13	1.664	1.280	0.33	0.42	0.34	0.41	560
VENR3015-680M	68 ± 20%	11	3.510	2.700	0.28	0.37	0.23	0.31	680
VENR3015-101M	100 ± 20%	6.3	4.043	3.110	0.23	0.25	0.21	0.25	101

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



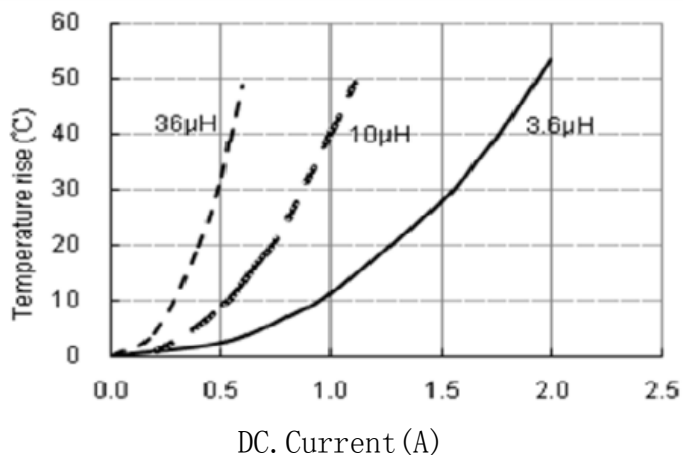
Electrical Characteristics

VENR4012 Series

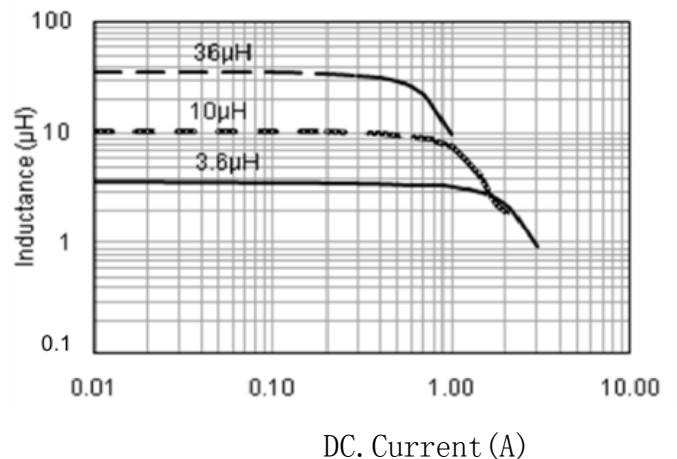
Part No.	Inductance	S. R. F	RDC		Isat		Irms		Marking
	100kHz/0.25V	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	
	uH	MHz	Ω	Ω	A	A	A	A	
VENR4012-R82N	0.82 ± 30%	150	0.065	0.050	3.02	3.30	1.65	2.50	R82
VENR4012-1R0N	1.0 ± 30%	120	0.065	0.050	2.61	3.20	1.65	2.50	1R0
VENR4012-1R5M	1.5 ± 20%	90	0.085	0.065	2.10	2.70	1.46	2.20	1R5
VENR4012-1R8M	1.8 ± 20%	88	0.104	0.080	2.12	2.60	1.32	1.90	1R8
VENR4012-2R2M	2.2 ± 20%	74	0.104	0.080	1.76	2.30	1.32	1.90	2R2
VENR4012-2R7M	2.7 ± 20%	71	0.117	0.090	1.90	2.30	1.25	1.70	2R7
VENR4012-3R3M	3.3 ± 20%	60	0.143	0.110	1.72	2.10	1.12	1.60	3R3
VENR4012-3R6M	3.6 ± 20%	57	0.143	0.110	1.20	1.70	1.12	1.60	3R6
VENR4012-4R7M	4.7 ± 20%	50	0.163	0.125	1.15	1.80	1.05	1.50	4R7
VENR4012-5R6M	5.6 ± 20%	42	0.182	0.140	1.00	1.60	1.00	1.20	5R6
VENR4012-6R8M	6.8 ± 20%	40	0.257	0.198	0.85	1.40	0.84	1.20	6R8
VENR4012-100M	10 ± 20%	33	0.345	0.265	0.80	1.10	0.77	1.00	100
VENR4012-120M	12 ± 20%	32	0.377	0.290	0.66	1.00	0.70	0.95	120
VENR4012-150M	15 ± 20%	25	0.442	0.340	0.56	0.80	0.64	0.85	150
VENR4012-180M	18 ± 20%	23	0.611	0.470	0.55	0.75	0.55	0.80	180
VENR4012-220M	22 ± 20%	20	0.763	0.587	0.46	0.70	0.49	0.75	220
VENR4012-270M	27 ± 20%	18	0.936	0.720	0.50	0.70	0.45	0.60	270
VENR4012-330M	33 ± 20%	17	1.053	0.810	0.42	0.60	0.42	0.58	330
VENR4012-360M	36 ± 20%	14	1.170	0.90	0.40	0.50	0.40	0.56	360
VENR4012-390M	39 ± 20%	16	1.430	1.10	0.55	0.66	0.37	0.50	390
VENR4012-470M	47 ± 20%	12	1.430	1.10	0.35	0.50	0.37	0.50	470
VENR4012-560M	56 ± 20%	11	1.625	1.250	0.33	0.45	0.33	0.46	560
VENR4012-680M	68 ± 20%	11	2.535	1.950	0.38	0.45	0.27	0.45	680
VENR4012-820M	82 ± 20%	11	2.782	2.140	0.28	0.40	0.26	0.36	820

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristic



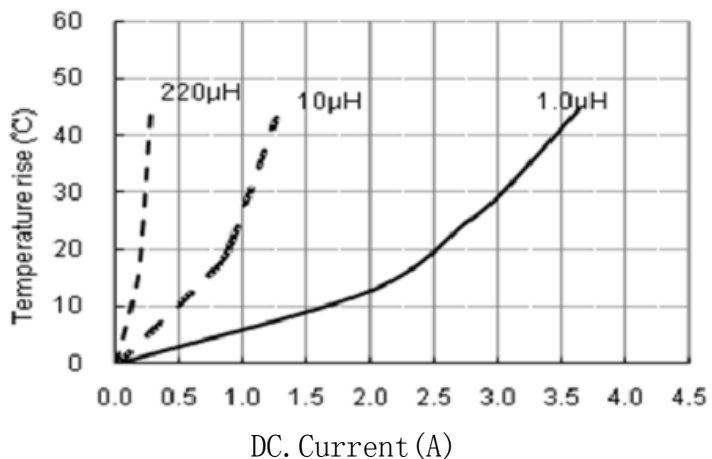
Electrical Characteristics

VENR4018 Series

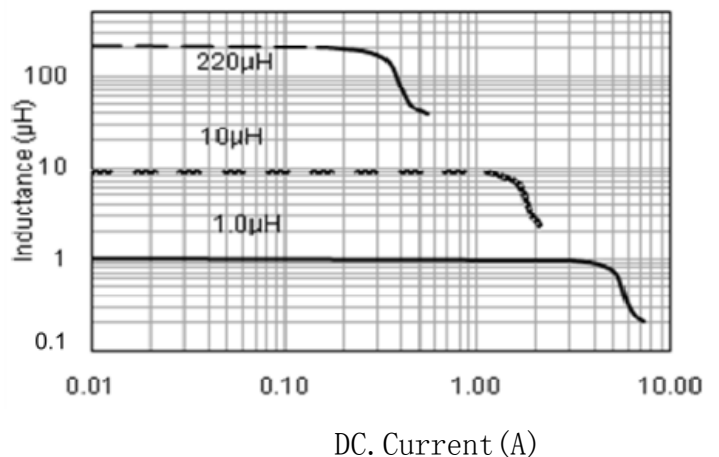
Part No.	Inductance	S. R. F	RDC		Isat		Irms		Marking
	100kHz/0.25V	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	
	uH	MHz	Ω	Ω	A	A	A	A	
VENR4018-R47N	0.47 \pm 30%	155	0.018	0.014	4.30	5.20	4.00	4.50	R47
VENR4018-R68N	0.68 \pm 30%	128	0.026	0.020	4.90	5.60	3.30	3.80	R68
VENR4018-1R0N	1.0 \pm 30%	80	0.033	0.025	4.80	5.20	2.00	3.30	1R0
VENR4018-1R5N	1.5 \pm 30%	65	0.039	0.030	3.35	4.00	1.80	3.20	1R5
VENR4018-1R8N	1.8 \pm 30%	54	0.044	0.034	3.00	3.40	2.00	2.80	1R8
VENR4018-2R2M	2.2 \pm 20%	52	0.059	0.045	2.70	3.20	1.65	2.60	2R2
VENR4018-3R3M	3.3 \pm 20%	44	0.091	0.070	2.45	2.90	1.23	2.10	3R3
VENR4018-4R7M	4.7 \pm 20%	34	0.117	0.090	1.70	2.20	1.20	1.80	4R7
VENR4018-6R8M	6.8 \pm 20%	29	0.143	0.110	1.45	2.00	1.06	1.50	6R8
VENR4018-100M	10 \pm 20%	24	0.234	0.180	1.30	1.60	0.84	1.20	100
VENR4018-150M	15 \pm 20%	19	0.325	0.250	0.94	1.10	0.65	1.00	150
VENR4018-220M	22 \pm 20%	16	0.468	0.360	0.80	0.88	0.59	0.85	220
VENR4018-270M	27 \pm 20%	27	0.611	0.470	0.47	0.62	0.52	0.90	270
VENR4018-330M	33 \pm 20%	12	0.689	0.530	0.56	0.75	0.49	0.72	330
VENR4018-470M	47 \pm 20%	10	0.845	0.650	0.57	0.70	0.42	0.65	470
VENR4018-680M	68 \pm 20%	8.3	1.30	1.0	0.47	0.51	0.32	0.52	680
VENR4018-101M	100 \pm 20%	6.5	2.275	1.750	0.40	0.44	0.25	0.41	101
VENR4018-151M	150 \pm 20%	5.5	3.250	2.50	0.31	0.34	0.22	0.36	151
VENR4018-221M	220 \pm 20%	4	5.20	4.0	0.27	0.30	0.17	0.27	221

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



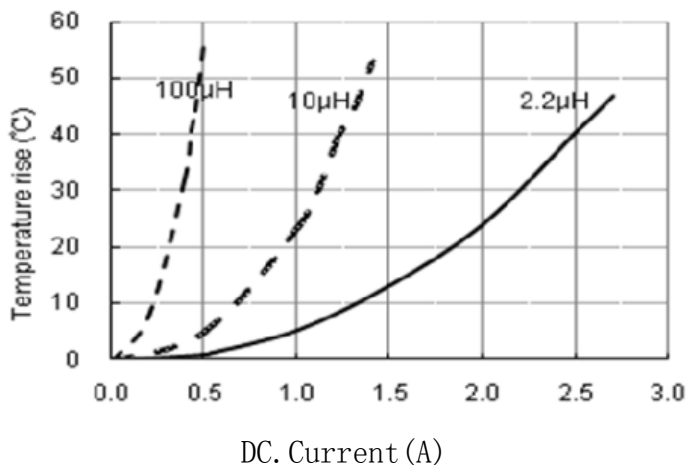
Electrical Characteristics

VENR4020 Series

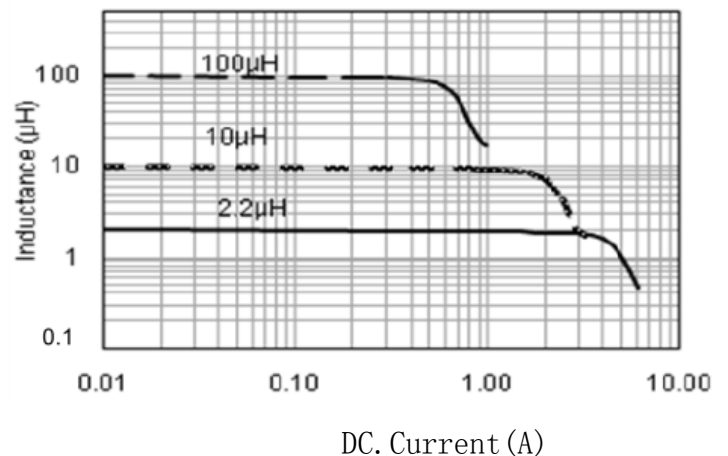
Part No.	Inductance	S. R. F	RDC		Isat		Irms		Marking
	100kHz/0.25V	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	
	uH	MHz	Ω	Ω	A	A	A	A	
VENR4020-R33N	0.33 ± 30%	223	0.016	0.013	7.50	8.50	3.30	4.90	R33
VENR4020-R47N	0.47 ± 30%	160	0.029	0.022	7.00	7.50	3.30	3.70	R47
VENR4020-R68N	0.68 ± 30%	120	0.036	0.028	6.40	6.60	2.80	3.30	R68
VENR4020-1R0N	1.0 ± 30%	75	0.038	0.029	4.78	5.20	2.15	3.20	1R0
VENR4020-1R2N	1.2 ± 30%	72	0.038	0.029	5.10	5.60	2.15	3.20	1R2
VENR4020-1R5N	1.5 ± 30%	71	0.046	0.035	4.45	4.90	1.98	3.00	1R5
VENR4020-2R2N	2.2 ± 30%	49	0.052	0.040	3.40	3.70	1.85	2.80	2R2
VENR4020-3R3M	3.3 ± 20%	44	0.091	0.070	3.20	3.50	1.40	2.50	3R3
VENR4020-3R6M	3.6 ± 20%	49	0.072	0.055	2.80	3.00	1.54	2.50	3R6
VENR4020-4R7M	4.7 ± 20%	42	0.098	0.075	2.35	2.50	1.34	2.00	4R7
VENR4020-5R6M	5.6 ± 20%	30	0.117	0.090	2.20	2.40	1.22	1.80	5R6
VENR4020-6R8M	6.8 ± 20%	33	0.163	0.125	2.20	2.40	1.04	1.60	6R8
VENR4020-8R2M	8.2 ± 20%	27	0.163	0.125	1.75	1.90	1.04	1.40	8R2
VENR4020-100M	10 ± 20%	26	0.215	0.165	1.60	1.70	0.90	1.20	100
VENR4020-120M	12 ± 20%	26	0.228	0.175	1.50	1.60	0.88	1.20	120
VENR4020-150M	15 ± 20%	24	0.299	0.230	1.35	1.50	0.77	1.10	150
VENR4020-220M	22 ± 20%	15	0.455	0.350	1.05	1.10	0.62	0.87	220
VENR4020-270M	27 ± 20%	14	0.709	0.545	1.02	1.10	0.50	0.70	270
VENR4020-330M	33 ± 20%	11	0.715	0.550	0.85	0.93	0.49	0.68	330
VENR4020-390M	39 ± 20%	11	0.845	0.650	0.82	0.90	0.46	0.64	390
VENR4020-470M	47 ± 20%	10	0.923	0.710	0.74	0.81	0.44	0.61	470
VENR4020-560M	56 ± 20%	10	1.040	0.80	0.66	0.72	0.41	0.57	560
VENR4020-680M	68 ± 20%	7.7	1.380	1.060	0.61	0.67	0.36	0.50	680
VENR4020-820M	82 ± 20%	7.2	1.520	1.170	0.50	0.55	0.34	0.47	820
VENR4020-101M	100 ± 20%	6.3	2.020	1.550	0.48	0.53	0.31	0.43	101

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



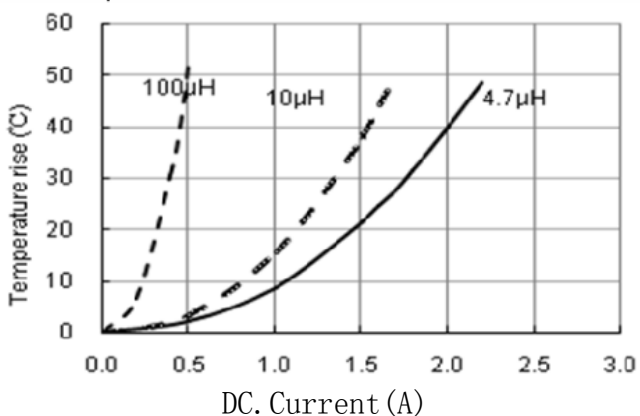
Electrical Characteristics

VENR4030 Series

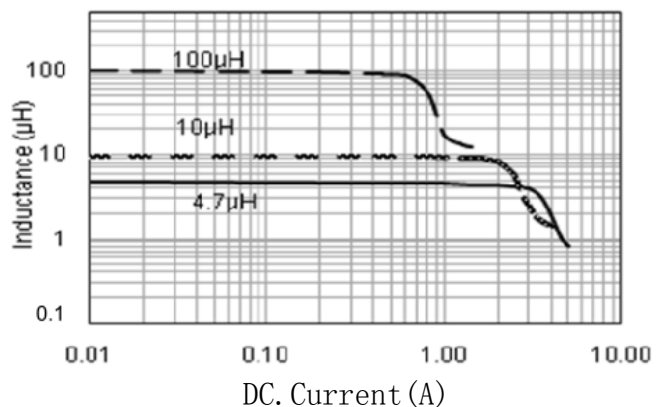
Part No.	Inductance	S. R. F	RDC		Isat		Irms		Marking
	100kHz/0.25V	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	
	uH	MHz	Ω	Ω	A	A	A	A	
VENR4030-1R0N	1.0 ± 30%	70	0.018	0.014	5.26	5.70	4.15	4.70	1R0
VENR4030-1R2N	1.2 ± 30%	80	0.020	0.015	5.80	6.30	3.82	4.20	1R2
VENR4030-1R5N	1.5 ± 30%	62	0.026	0.020	4.84	5.30	3.34	3.60	1R5
VENR4030-1R8N	1.8 ± 30%	60	0.033	0.025	5.40	5.80	3.20	3.30	1R8
VENR4030-2R2N	2.2 ± 30%	52	0.039	0.030	4.90	5.80	2.95	3.20	2R2
VENR4030-3R3M	3.3 ± 20%	38	0.052	0.040	3.30	3.60	2.40	2.60	3R3
VENR4030-3R9M	3.9 ± 20%	32	0.074	0.057	3.00	3.30	2.10	2.30	3R9
VENR4030-4R7M	4.7 ± 20%	31	0.078	0.060	2.90	3.20	2.00	2.30	4R7
VENR4030-5R6M	5.6 ± 20%	30	0.085	0.065	2.60	2.80	1.95	2.10	5R6
VENR4030-6R8M	6.8 ± 20%	24	0.117	0.090	2.75	3.00	1.60	1.70	6R8
VENR4030-8R2M	8.2 ± 20%	26	0.117	0.090	2.10	2.30	1.60	1.70	8R2
VENR4030-100M	10 ± 20%	21	0.130	0.10	1.95	2.40	1.50	1.60	100
VENR4030-150M	15 ± 20%	16	0.247	0.190	1.65	1.80	1.11	1.20	150
VENR4030-180M	18 ± 20%	10	0.260	0.20	1.40	1.50	1.10	1.20	180
VENR4030-220M	22 ± 20%	10	0.292	0.225	1.30	1.40	1.00	1.20	220
VENR4030-270M	27 ± 20%	10	0.338	0.260	1.15	1.35	0.90	1.05	270
VENR4030-330M	33 ± 20%	10	0.429	0.330	1.10	1.20	0.84	0.92	330
VENR4030-390M	39 ± 20%	10	0.566	0.435	1.03	1.10	0.73	0.80	390
VENR4030-470M	47 ± 20%	8.4	0.579	0.445	0.95	1.00	0.72	0.80	470
VENR4030-560M	56 ± 20%	8.4	0.722	0.555	0.85	0.94	0.65	0.71	560
VENR4030-680M	68 ± 20%	7	1.128	0.868	0.72	0.80	0.52	0.57	680
VENR4030-820M	82 ± 20%	5.6	1.378	1.060	0.66	0.72	0.47	0.52	820
VENR4030-101M	100 ± 20%	5.6	1.495	1.150	0.60	0.73	0.45	0.49	101
VENR4030-121M	120 ± 20%	5.4	1.755	1.350	0.55	0.60	0.42	0.46	121
VENR4030-151M	150 ± 20%	4	2.340	1.80	0.50	0.55	0.30	0.35	151
VENR4030-221M	220 ± 20%	4.2	3.250	2.50	0.40	0.50	0.35	0.40	221
VENR4030-331M	330 ± 20%	6.8	5.20	4.0	0.30	0.40	0.25	0.26	331

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



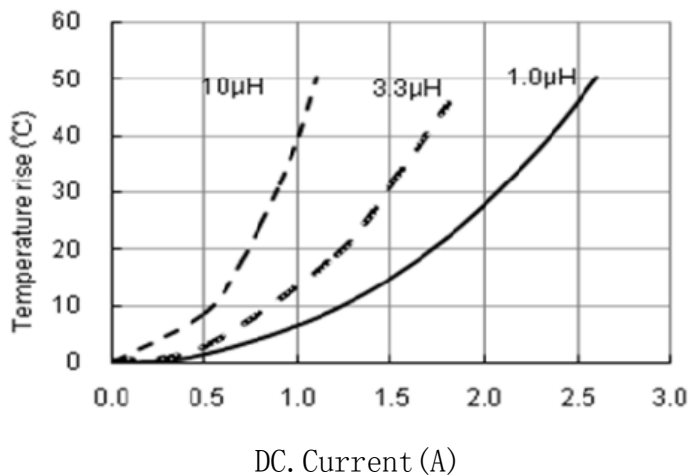
Electrical Characteristics

VENR5012 Series

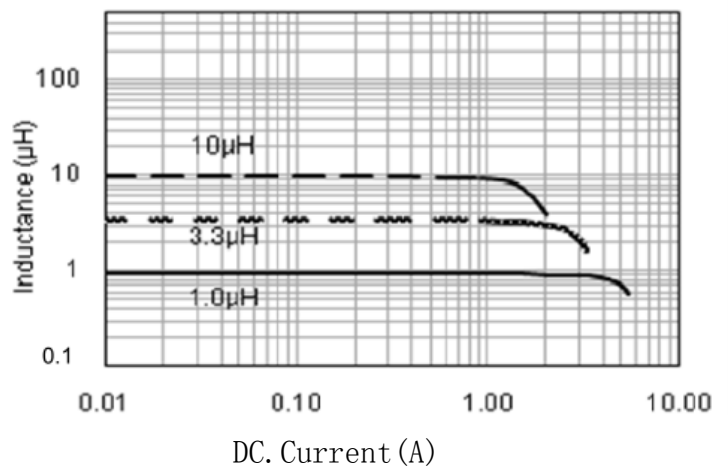
Part No.	Inductance	S. R. F	RDC		Isat		Irms		Marking
	100kHz/0.25V	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	
	uH	MHz	Ω	Ω	A	A	A	A	
VENR5012-R22N	0.22±30%	315	0.034	0.028	8.10	9.30	3.00	3.30	R22
VENR5012-1R0N	1.0±30%	103	0.068	0.057	4.40	4.70	2.00	2.40	1R0
VENR5012-1R5N	1.5±30%	68	0.086	0.072	3.70	3.80	1.90	2.20	1R5
VENR5012-2R2N	2.2±30%	50	0.108	0.090	3.10	3.20	1.70	2.00	2R2
VENR5012-3R3N	3.3±30%	34	0.151	0.126	2.40	2.60	1.40	1.70	3R3
VENR5012-4R7N	4.7±30%	31	0.197	0.164	2.20	2.30	1.30	1.50	4R7
VENR5012-6R8N	6.8±20%	22	0.294	0.245	1.70	1.90	1.00	1.20	6R8
VENR5012-100M	10±20%	17	0.413	0.344	1.40	1.50	0.85	1.00	100
VENR5012-150M	15±20%	13	0.523	0.436	1.20	1.30	0.80	0.92	150
VENR5012-220M	22±20%	16	0.858	0.780	0.88	0.98	0.60	0.68	220

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



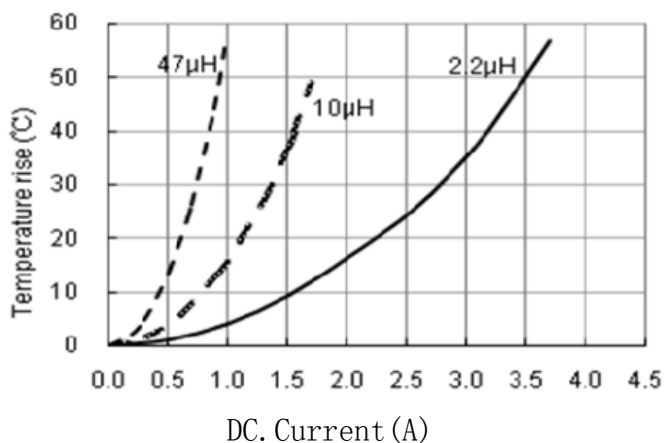
Electrical Characteristics

VENR5020 Series

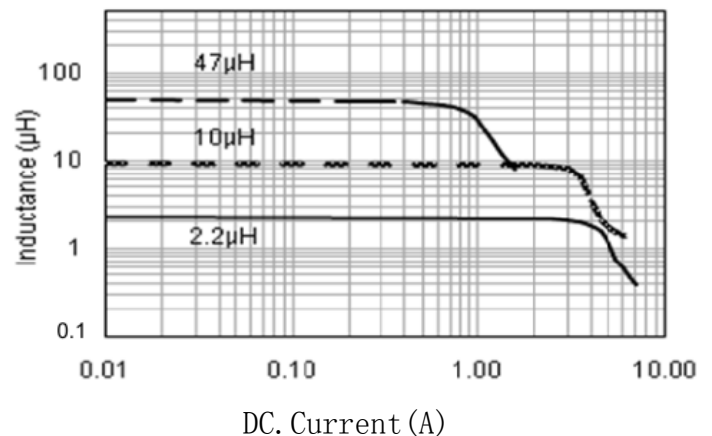
Part No.	Inductance	S. R. F	RDC		Isat		Irms		Marking
	100kHz/0.25V	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	
	μH	MHz	Ω	Ω	A	A	A	A	
VENR5020-R22N	0.22 \pm 30%	280	0.011	0.009	9.00	12.00	5.30	6.00	R22
VENR5020-R47N	0.47 \pm 30%	160	0.017	0.013	6.15	6.70	4.60	5.00	R47
VENR5020-R56N	0.56 \pm 30%	137	0.022	0.017	8.50	9.60	3.80	4.20	R56
VENR5020-R68N	0.68 \pm 30%	120	0.022	0.017	5.50	6.00	4.00	4.40	R68
VENR5020-1R0N	1.0 \pm 30%	114	0.026	0.020	4.10	5.00	3.80	4.10	1R0
VENR5020-1R5N	1.5 \pm 30%	68	0.034	0.026	4.10	4.50	3.20	3.50	1R5
VENR5020-2R2N	2.2 \pm 30%	57	0.042	0.032	3.20	4.00	2.90	3.10	2R2
VENR5020-3R3N	3.3 \pm 30%	46	0.056	0.043	2.55	3.00	2.50	2.70	3R3
VENR5020-3R9N	3.9 \pm 30%	40	0.056	0.043	2.30	2.80	2.50	2.70	3R9
VENR5020-4R7M	4.7 \pm 20%	37	0.074	0.057	2.50	2.70	2.20	2.40	4R7
VENR5020-5R1M	5.1 \pm 20%	32	0.083	0.064	2.25	2.60	2.05	2.20	5R1
VENR5020-5R6M	5.6 \pm 20%	32	0.083	0.064	2.30	2.50	2.05	2.20	5R6
VENR5020-6R8M	6.8 \pm 20%	30	0.108	0.083	2.05	2.20	1.80	1.90	6R8
VENR5020-8R2M	8.2 \pm 20%	26	0.127	0.098	1.85	2.00	1.65	1.80	8R2
VENR5020-100M	10 \pm 20%	24	0.143	0.110	1.70	1.80	1.55	1.70	100
VENR5020-10M	12 \pm 20%	22	0.182	0.140	1.50	1.60	1.40	1.50	120
VENR5020-150M	15 \pm 20%	20	0.215	0.165	1.35	1.40	1.25	1.30	150
VENR5020-180M	18 \pm 20%	16	0.260	0.200	1.25	1.30	1.15	1.20	180
VENR5020-220M	22 \pm 20%	14	0.294	0.226	1.15	1.20	1.10	1.20	220
VENR5020-330M	33 \pm 20%	7	0.507	0.390	0.92	1.00	0.90	0.99	330
VENR5020-470M	47 \pm 20%	6	0.680	0.523	0.77	0.84	0.77	0.84	470
VENR5020-560M	56 \pm 20%	6	0.819	0.630	0.77	0.84	0.70	0.77	560
VENR5020-680M	68 \pm 20%	6	0.962	0.740	0.65	0.70	0.64	0.70	680
VENR5020-820M	82 \pm 20%	6	1.158	0.965	0.65	0.75	0.50	0.60	820
VENR5020-101M	100 \pm 20%	6	1.430	1.10	0.53	0.58	0.53	0.58	101
VENR5020-121M	120 \pm 20%	6	1.755	1.350	0.42	0.53	0.40	0.50	121

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics

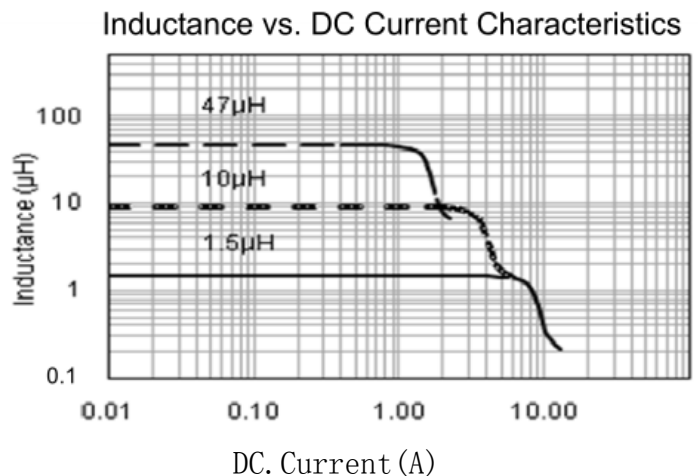
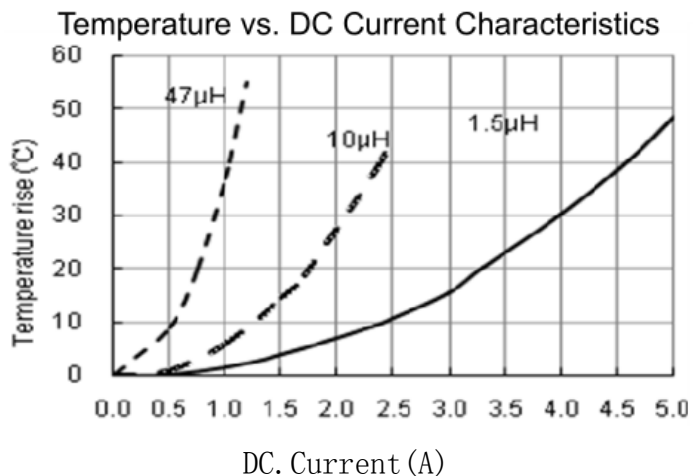


Electrical Characteristics

VENR5040 Series

Part No.	Inductance	S. R. F	RDC		Isat		Irms		Marking
	100kHz/0.25V		Min.	Max.	Typ.	Max.	Typ.	Max.	
	μH	MHz	Ω	Ω	A	A	A	A	
VENR5040-1R0N	1.0 \pm 30%	117	0.016	0.012	7.35	8.00	4.90	5.00	1R0
VENR5040-1R5N	1.5 \pm 30%	86	0.020	0.015	6.30	6.80	4.30	4.85	1R5
VENR5040-1R8N	1.8 \pm 30%	55	0.021	0.016	5.50	6.05	4.15	4.30	1R8
VENR5040-2R2N	2.2 \pm 30%	50	0.025	0.019	4.90	5.50	3.80	4.20	2R2
VENR5040-3R3N	3.3 \pm 30%	32	0.031	0.024	3.95	4.45	3.40	3.90	3R3
VENR5040-3R9N	3.9 \pm 30%	29	0.035	0.027	3.55	4.00	3.20	3.70	3R9
VENR5040-4R7N	4.7 \pm 30%	28	0.039	0.030	3.50	3.80	3.00	3.30	4R7
VENR5040-5R6M	5.6 \pm 20%	27	0.046	0.035	3.00	3.70	2.80	3.10	5R6
VENR5040-6R8M	6.8 \pm 20%	21	0.056	0.043	2.90	3.40	2.50	2.80	6R8
VENR5040-100M	10 \pm 20%	18	0.083	0.064	2.35	2.70	2.10	2.35	100
VENR5040-120M	12 \pm 20%	14	0.100	0.077	2.2	2.5	2.0	2.1	120
VENR5040-150M	15 \pm 20%	13	0.112	0.086	2.00	2.20	2.00	2.05	150
VENR5040-180M	18 \pm 20%	12	0.155	0.119	1.70	2.00	1.45	1.65	180
VENR5040-220M	22 \pm 20%	11	0.168	0.129	1.60	1.80	1.50	1.60	220
VENR5040-330M	33 \pm 20%	9	0.244	0.188	1.30	1.45	1.20	1.35	330
VENR5040-470M	47 \pm 20%	7	0.354	0.272	1.10	1.20	1.00	1.15	470
VENR5040-560M	56 \pm 20%	6	0.494	0.380	1.05	1.20	0.80	0.90	560
VENR5040-680M	68 \pm 20%	6	0.520	0.40	0.90	1.00	0.80	0.90	680
VENR5040-101M	100 \pm 20%	5	0.728	0.560	0.75	0.85	0.70	0.78	101
VENR5040-151M	150 \pm 20%	3.7	0.975	0.750	0.65	0.67	0.60	0.70	151
VENR5040-221M	220 \pm 20%	3.0	1.820	1.40	0.48	0.55	0.40	0.50	221
VENR5040-331M	330 \pm 20%	2.7	2.730	2.10	0.42	0.47	0.40	0.50	331
VENR5040-471M	470 \pm 20%	2.7	3.90	3.0	0.37	0.43	0.35	0.40	471
VENR5040-561M	560 \pm 20%	1.3	4.920	3.780	0.31	0.36	0.31	0.35	561
VENR5040-681M	680 \pm 20%	1.3	5.070	3.90	0.30	0.35	0.25	0.30	681
VENR5040-102M	1000 \pm 20%	1.3	7.80	6.0	0.21	0.25	0.20	0.23	102

TYPICAL ELECTRICAL CHARACTERISTICS



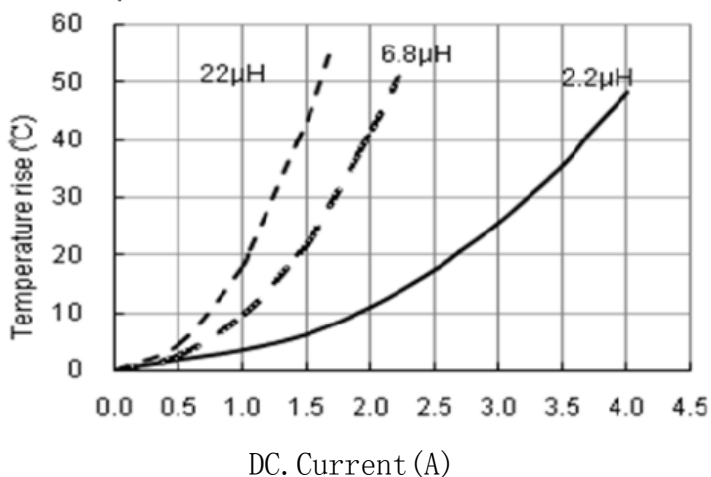
Electrical Characteristics

VENR6020 Series

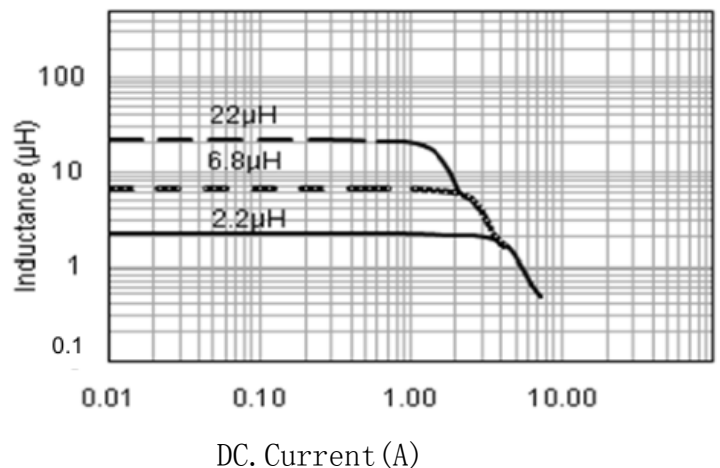
Part No.	Inductance	S. R. F	RDC		Isat		Irms		Marking
	100kHz/0.25V	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	
	μH	MHz	Ω	Ω	A	A	A	A	
VENR6020-R68N	0.68 \pm 30%	115	0.022	0.017	6.55	7.80	3.80	4.80	R68
VENR6020-R82N	0.82 \pm 30%	110	0.022	0.017	5.30	6.30	3.80	4.80	R82
VENR6020-1R0N	1.0 \pm 30%	100	0.020	0.020	4.15	5.00	3.50	4.40	1R0
VENR6020-1R2N	1.2 \pm 30%	88	0.029	0.022	5.90	7.00	3.20	4.00	1R2
VENR6020-1R5N	1.5 \pm 30%	79	0.029	0.022	4.25	5.10	3.20	4.00	1R5
VENR6020-1R8N	1.8 \pm 30%	68	0.036	0.028	4.85	5.80	2.75	3.50	1R8
VENR6020-2R0N	2.0 \pm 30%	65	0.046	0.035	4.10	4.90	2.60	3.30	2R0
VENR6020-2R2N	2.2 \pm 30%	61	0.036	0.028	3.75	4.50	2.75	3.50	2R2
VENR6020-2R7N	2.7 \pm 30%	56	0.046	0.035	3.90	4.60	2.60	3.30	2R7
VENR6020-3R3N	3.3 \pm 30%	51	0.046	0.035	3.15	3.70	2.60	3.30	3R3
VENR6020-3R9N	3.9 \pm 30%	45	0.064	0.049	3.25	3.90	2.10	2.60	3R9
VENR6020-4R3N	4.3 \pm 30%	44	0.064	0.049	2.70	3.20	2.10	2.60	4R3
VENR6020-4R7N	4.7 \pm 30%	41	0.075	0.058	3.00	3.60	2.00	2.50	4R7
VENR6020-5R6N	5.6 \pm 30%	36	0.075	0.058	2.40	2.90	1.90	2.40	5R6
VENR6020-6R2N	6.2 \pm 30%	31	0.103	0.079	2.30	2.70	1.80	2.30	6R2
VENR6020-6R8N	6.8 \pm 30%	31	0.103	0.079	2.20	2.60	1.80	2.30	6R8
VENR6020-8R2N	8.2 \pm 30%	27	0.137	0.105	2.10	2.50	1.40	1.80	8R2
VENR6020-100M	10 \pm 20%	27	0.137	0.105	1.75	2.10	1.40	1.80	100
VENR6020-120M	12 \pm 20%	25	0.156	0.120	1.45	1.70	1.30	1.60	120
VENR6020-150M	15 \pm 20%	21	0.189	0.145	1.20	1.40	1.20	1.50	150
VENR6020-180M	18 \pm 20%	18	0.234	0.180	1.20	1.40	1.08	1.40	180
VENR6020-220M	22 \pm 20%	16	0.265	0.204	1.05	1.20	1.00	1.30	220
VENR6020-330M	33 \pm 20%	11	0.390	0.30	0.95	1.10	0.84	1.05	330
VENR6020-470M	47 \pm 20%	10	0.559	0.430	0.70	0.90	0.80	0.90	470

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



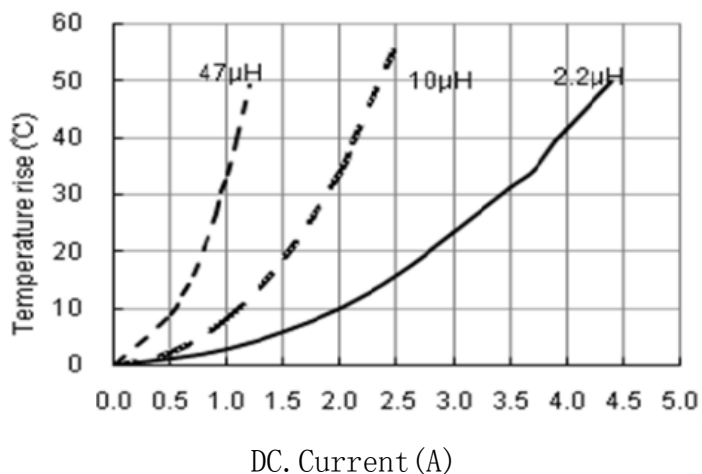
Electrical Characteristics

VENR6028 Series

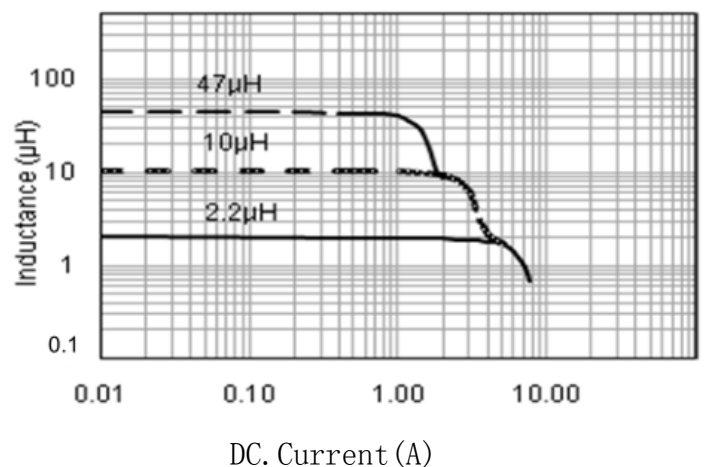
Part No.	Inductance	S. R. F	RDC		Isat		Irms		Marking
	100kHz/0.25V	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	
	μH	MHz	Ω	Ω	A	A	A	A	
VENR6028-R82N	0.82 \pm 30%	97	0.016	0.012	6.50	9.00	5.20	6.00	R82
VENR6028-1R0N	1.0 \pm 30%	70	0.013	0.010	5.75	7.00	5.20	5.70	1R0
VENR6028-1R2N	1.2 \pm 30%	69	0.017	0.013	6.40	7.50	4.58	5.00	1R2
VENR6028-1R5N	1.5 \pm 30%	65	0.017	0.013	6.00	6.60	4.58	5.00	1R5
VENR6028-2R2N	2.2 \pm 30%	48	0.026	0.020	5.10	5.60	3.75	4.10	2R2
VENR6028-2R7N	2.7 \pm 30%	48	0.026	0.020	3.80	4.10	3.75	4.10	2R7
VENR6028-3R3N	3.3 \pm 30%	41	0.033	0.025	4.15	4.50	3.48	3.80	3R3
VENR6028-4R7N	4.7 \pm 30%	35	0.039	0.030	3.00	3.30	3.08	3.40	4R7
VENR6028-6R2M	6.2 \pm 20%	30	0.061	0.047	3.05	3.30	2.40	2.60	6R2
VENR6028-6R8M	6.8 \pm 20%	27	0.061	0.047	2.60	3.00	2.40	2.60	6R8
VENR6028-8R2M	8.2 \pm 20%	24	0.072	0.055	2.30	2.50	2.25	2.50	8R2
VENR6028-100M	10 \pm 20%	23	0.094	0.072	2.04	2.50	1.95	2.40	100
VENR6028-120M	12 \pm 20%	18	0.104	0.080	1.80	2.00	1.85	2.00	120
VENR6028-150M	15 \pm 20%	18	0.163	0.125	1.75	1.90	1.45	1.60	150
VENR6028-180M	18 \pm 20%	15	0.156	0.120	1.52	1.80	1.45	1.60	180
VENR6028-220M	22 \pm 20%	14	0.182	0.140	1.45	1.80	1.40	1.60	220
VENR6028-270M	27 \pm 20%	13	0.202	0.155	1.50	1.60	1.32	1.40	270
VENR6028-330M	33 \pm 20%	12	0.241	0.185	1.35	1.50	1.22	1.30	330
VENR6028-360M	36 \pm 20%	11	0.280	0.215	1.25	1.40	1.13	1.20	360
VENR6028-390M	39 \pm 20%	11	0.293	0.225	1.25	1.40	1.10	1.20	390
VENR6028-470M	47 \pm 20%	9.5	0.410	0.315	1.15	1.30	1.06	1.10	470
VENR6028-560M	56 \pm 20%	8.2	0.449	0.345	1.05	1.20	0.89	1.00	560
VENR6028-680M	68 \pm 20%	7.7	0.468	0.360	0.80	0.95	0.86	0.95	680
VENR6028-820M	82 \pm 20%	7.7	0.650	0.50	0.80	0.88	0.70	0.77	820
VENR6028-101M	100 \pm 20%	7.1	0.650	0.50	0.65	0.71	0.70	0.77	101

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



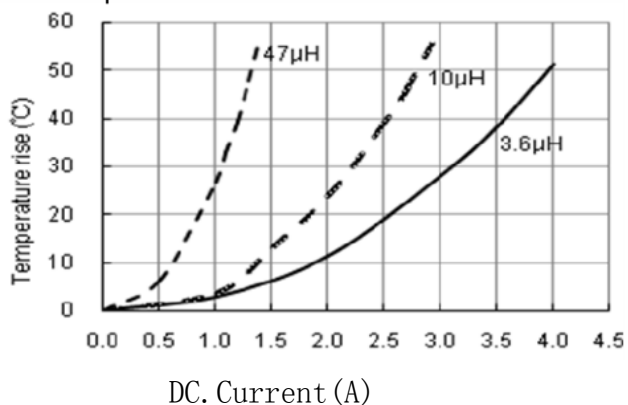
Electrical Characteristics

VENR6045 Series

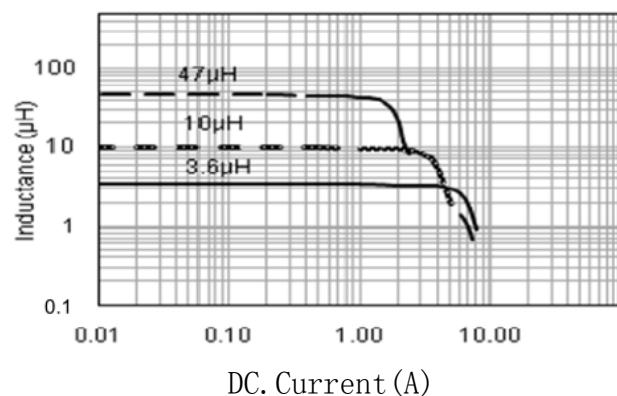
Part No.	Inductance	S. R. F	RDC		Isat		Irms		Marking
	100kHz/0.25V	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	
	μH	MHz	Ω	Ω	A	A	A	A	
VENR6045-1R0N	1.0 \pm 30%	100	0.014	0.011	9.85	10.00	5.14	5.60	1R0
VENR6045-1R5N	1.5 \pm 30%	65	0.016	0.012	8.80	9.70	4.95	5.40	1R5
VENR6045-2R2N	2.2 \pm 30%	52	0.018	0.014	6.75	7.40	4.60	5.00	2R2
VENR6045-3R3N	3.3 \pm 30%	32	0.027	0.021	5.90	6.20	3.70	4.00	3R3
VENR6045-3R6N	3.6 \pm 30%	28	0.027	0.021	5.25	5.70	3.70	4.00	3R6
VENR6045-4R7M	4.7 \pm 20%	24	0.034	0.026	4.97	5.50	3.30	3.60	4R7
VENR6045-6R8M	6.8 \pm 20%	20	0.040	0.031	3.90	4.30	3.00	3.30	6R8
VENR6045-100M	10 \pm 20%	15	0.066	0.048	3.00	3.50	2.45	2.70	100
VENR6045-150M	15 \pm 20%	12	0.088	0.068	2.70	2.70	2.05	2.20	150
VENR6045-180M	18 \pm 20%	10	0.105	0.081	2.20	2.40	1.85	2.00	180
VENR6045-220M	22 \pm 20%	10	0.116	0.089	2.05	2.20	1.80	2.00	220
VENR6045-270M	27 \pm 20%	9.2	0.133	0.102	1.90	2.10	1.65	1.80	270
VENR6045-330M	33 \pm 20%	7.8	0.178	0.137	1.65	1.80	1.45	1.60	330
VENR6045-390M	39 \pm 20%	7.8	0.234	0.180	1.50	1.60	1.25	1.40	390
VENR6045-470M	47 \pm 20%	6.4	0.260	0.20	1.40	1.50	1.20	1.30	470
VENR6045-560M	56 \pm 20%	6.4	0.287	0.221	1.30	1.40	1.10	1.20	560
VENR6045-680M	68 \pm 20%	6.4	0.376	0.289	1.20	1.30	1.00	1.10	680
VENR6045-101M	100 \pm 20%	4.2	0.563	0.433	0.95	1.00	0.80	0.88	101
VENR6045-121M	120 \pm 20%	4.2	0.629	0.484	0.85	0.94	0.77	0.85	121
VENR6045-151M	150 \pm 20%	4.2	0.754	0.580	0.80	0.88	0.70	0.77	151
VENR6045-221M	220 \pm 20%	3.5	1.084	0.834	0.70	0.77	0.59	0.65	221
VENR6045-331M	330 \pm 20%	2.8	1.651	1.270	0.57	0.63	0.57	0.63	331
VENR6045-471M	470 \pm 20%	2.0	2.340	1.80	0.50	0.56	0.42	0.48	471
VENR6045-681M	680 \pm 20%	1.7	3.250	2.50	0.42	0.46	0.33	0.38	681
VENR6045-102M	1000 \pm 20%	0.5	5.850	4.50	0.30	0.35	0.30	0.35	102
VENR6045-152M	1500 \pm 20%	0.8	8.450	6.50	0.24	0.27	0.21	0.24	152
VENR6045-222M	2200 \pm 10%	0.9	12.48	10.40	0.20	0.23	0.17	0.20	222

TYPICAL ELECTRICAL CHARACTERISTICS

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



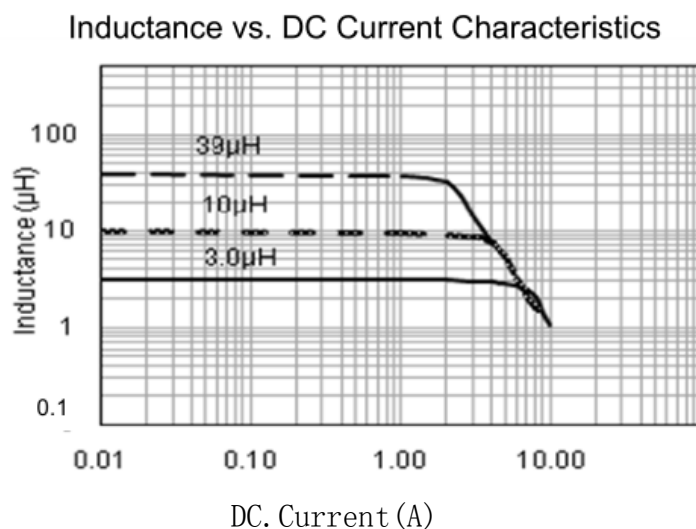
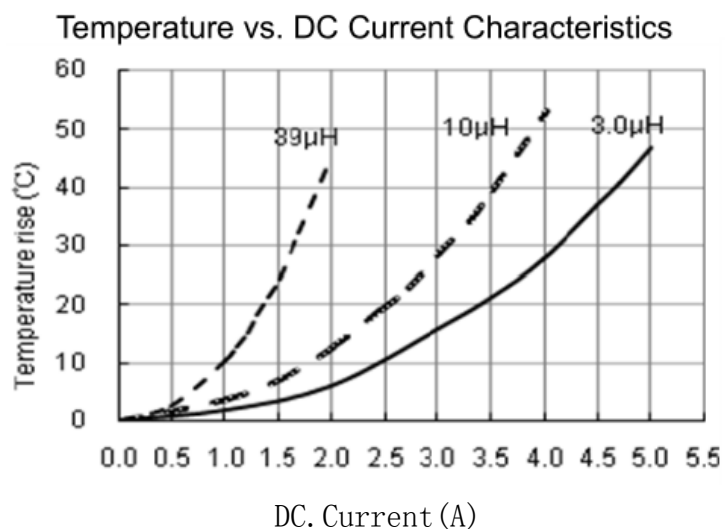
Electrical Characteristics

VENR8040 Series

Part No.	Inductance	S. R. F	RDC		Isat		Irms		Marking
	100kHz/0.25V	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	
	uH	MHz	Ω	Ω	A	A	A	A	
VENR8040-1R0N	1.0 ± 30%	89	0.010	0.008	9.85	14.00	6.30	6.90	1R0
VENR8040-1R2N	1.2 ± 30%	59	0.013	0.010	10.00	14.00	5.65	6.20	1R2
VENR8040-1R5N	1.5 ± 30%	67	0.013	0.010	8.15	11.00	5.65	6.20	1R5
VENR8040-2R2N	2.2 ± 30%	41	0.016	0.012	7.10	8.00	5.15	5.60	2R2
VENR8040-3R3N	3.3 ± 30%	27	0.022	0.017	6.50	7.00	4.40	4.80	3R3
VENR8040-3R6N	3.6 ± 30%	30	0.022	0.017	7.52	8.50	4.35	4.80	3R6
VENR8040-3R9N	3.9 ± 30%	26	0.022	0.017	5.75	6.50	4.35	4.80	3R9
VENR8040-4R7N	4.7 ± 30%	24	0.025	0.019	5.90	6.50	4.10	4.50	4R7
VENR8040-5R6N	5.6 ± 30%	24	0.027	0.021	6.00	6.90	3.85	4.20	5R6
VENR8040-6R2N	6.2 ± 30%	20	0.027	0.021	4.45	5.10	3.85	4.20	6R2
VENR8040-6R8M	6.8 ± 20%	20	0.031	0.024	4.55	5.20	3.60	4.00	6R8
VENR8040-8R2M	8.2 ± 20%	17	0.034	0.026	4.20	4.80	3.45	3.80	8R2
VENR8040-100M	10 ± 20%	15	0.038	0.029	3.60	4.10	3.30	3.60	100
VENR8040-120M	12 ± 20%	13	0.053	0.041	3.50	4.00	2.80	3.00	120
VENR8040-150M	15 ± 20%	12	0.061	0.047	2.95	3.40	2.60	2.80	150
VENR8040-180M	18 ± 20%	11	0.069	0.053	2.70	3.10	2.40	2.60	180
VENR8040-220M	22 ± 20%	9.5	0.090	0.069	2.40	2.70	2.10	2.30	220
VENR8040-270M	27 ± 20%	9.2	0.101	0.078	2.15	2.50	2.00	2.20	270
VENR8040-330M	33 ± 20%	7.8	0.126	0.097	2.05	2.40	1.80	2.00	330
VENR8040-360M	36 ± 20%	7.8	0.133	0.102	2.00	2.30	1.75	1.90	360
VENR8040-390M	39 ± 20%	7.8	0.139	0.107	1.95	2.20	1.70	1.90	390
VENR8040-430M	43 ± 20%	7.8	0.147	0.113	1.90	2.20	1.65	1.80	430
VENR8040-470M	47 ± 20%	6.4	0.177	0.136	1.75	2.00	1.55	1.70	470
VENR8040-510M	51 ± 20%	6.4	0.185	0.142	1.70	1.90	1.50	1.60	510
VENR8040-680M	68 ± 20%	4.9	0.255	0.196	1.45	1.60	1.25	1.40	680
VENR8040-820M	82 ± 20%	5.9	0.293	0.225	1.30	1.40	1.15	1.20	820
VENR8040-101M	100 ± 20%	4.9	0.377	0.290	1.15	1.30	1.00	1.10	101
VENR8040-121M	120 ± 20%	4.2	0.434	0.334	1.05	1.10	0.95	1.00	121
VENR8040-151M	150 ± 20%	3.5	0.533	0.410	1.10	1.20	0.85	0.94	151
VENR8040-181M	180 ± 20%	3.5	0.676	0.520	0.95	1.15	0.83	0.92	181
VENR8040-221M	220 ± 20%	3.5	0.779	0.599	0.85	0.94	0.80	0.88	221
VENR8040-331M	330 ± 20%	2.8	1.156	0.889	0.68	0.75	0.64	0.70	331
VENR8040-471M	470 ± 20%	2.1	1.625	1.260	0.60	0.70	0.50	0.60	471
VENR8040-681M	680 ± 20%	1.7	2.652	2.040	0.50	0.60	0.45	0.50	681
VENR8040-102M	1000 ± 20%	1.4	3.640	2.80	0.40	0.50	0.35	0.40	102
VENR8040-152M	1500 ± 20%	1.0	6.50	5.0	0.32	0.38	0.26	0.27	152

TYPICAL ELECTRICAL CHARACTERISTICS

VENR8040 Series



Supplier Information

Supplier:

Shenzhen Volume Source Electronics Co., Ltd.

Manufacturer:

ShenzhenVolume Source Electronics Co., Ltd.

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M. P: 13316585579 [?](#) Mr. Yu