

Wire Wound SMD Power Inductors—VEID Series

Applications:

- AP Routers.
- LCD TVs and monitors.
- Game consoles.
- LED lightings.
- DC/DC converters



Features :

- RoHS, Halogen Free and REACH Compliance.
- Magnetic shielded.
- Various package size and wide inductance range.

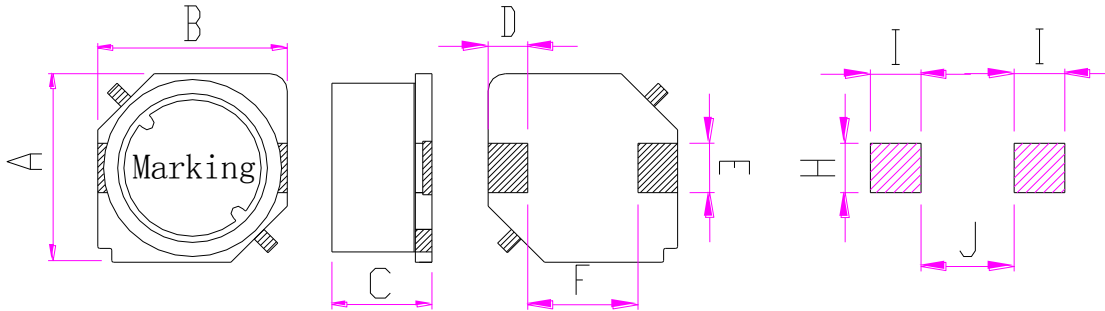
Product Identification :

VEID 6028 - 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)



PADLAYOUT

Item	A	B	C	D	E	F	H	I	J
VEID6028C	6.0±0.3	6.0±0.3	2.8±0.3	1.5Typ	2.0Typ	3.0Typ	2.2	1.5	4.0
VEID7032C	7.0±0.3	7.0±0.3	3.2±0.3	0.9Typ	2.0Typ	4.9Typ	2.2	1.5	4.9
VEID7046C	7.0±0.3	7.0±0.3	4.6±0.3	0.9Typ	2.0Typ	4.9Typ	2.2	1.5	4.9
VEID104C	10.1±0.3	10.1±0.3	4.5±0.3	2.0Typ	3.0Typ	6.0Typ	3.2	2.5	5.6
VEID125C	12.5±0.3	12.5±0.3	5.5±0.3	2.0Typ	3.0Typ	8.6Typ	3.2	2.5	8.6
VEID126C	12.5±0.3	12.5±0.3	6.5±0.3	2.0Typ	3.0Typ	8.6Typ	3.2	2.5	8.6
VEID127C	12.5±0.3	12.5±0.3	7.5±0.3	2.0Typ	3.0Typ	8.6Typ	3.2	2.5	8.6

Characteristics :

- Saturation Current(Isat):The current when the inductance becomes 30% 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 : -40°C~+125°C.
- Storage temperature range (packaging conditions): -5°C~+30°C and RH 70% (Max.)

Test equipments :

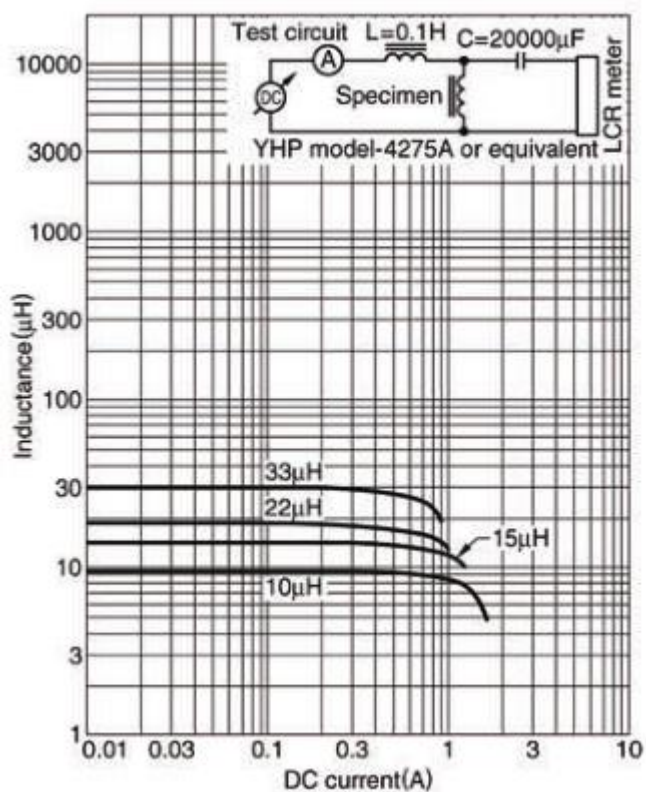
- L&Q: HP 4285A or HP 4275A, VR116/VR7210.
- DCR: Milli-ohm meter, VR131.
- Electrical specifications at 25°C.

Electrical Characteristics

VEID6028C Series

Part No.	Inductance (μH)	Test Frequency	DCR	Isat	Irms	Marking
			($\text{m}\Omega$) Max	(A) Max.	(A) Typ.	
VEID6028C-4R7N	$4.7 \pm 30\%$	100kHz/0.25V	36.9	1.6	2.5	4R7
VEID6028C-6R8N	$6.8 \pm 30\%$	100kHz/0.25V	47.9	1.5	2.2	6R8
VEID6028C-100M	$10 \pm 20\%$	1kHz/0.25V	69.1	1.3	1.8	100
VEID6028C-150M	$15 \pm 20\%$	1kHz/0.25V	96.8	1.0	1.4	150
VEID6028C-220M	$22 \pm 20\%$	1kHz/0.25V	135	0.77	1.3	220
VEID6028C-330M	$33 \pm 20\%$	1kHz/0.25V	192	0.69	1.1	330
VEID6028C-470M	$47 \pm 20\%$	1kHz/0.25V	273	0.59	0.92	470
VEID6028C-680M	$68 \pm 20\%$	1kHz/0.25V	507	0.5	0.78	680
VEID6028C-101M	$100 \pm 20\%$	1kHz/0.25V	559	0.42	0.64	101
VEID6028C-151M	$150 \pm 20\%$	1kHz/0.25V	845	0.34	0.5	151
VEID6028C-221M	$220 \pm 20\%$	1kHz/0.25V	1274	0.26	0.38	221
VEID6028C-331M	$330 \pm 20\%$	1kHz/0.25V	2500	0.12	0.13	331

Test Instruments YHP model-4275A or equivalent

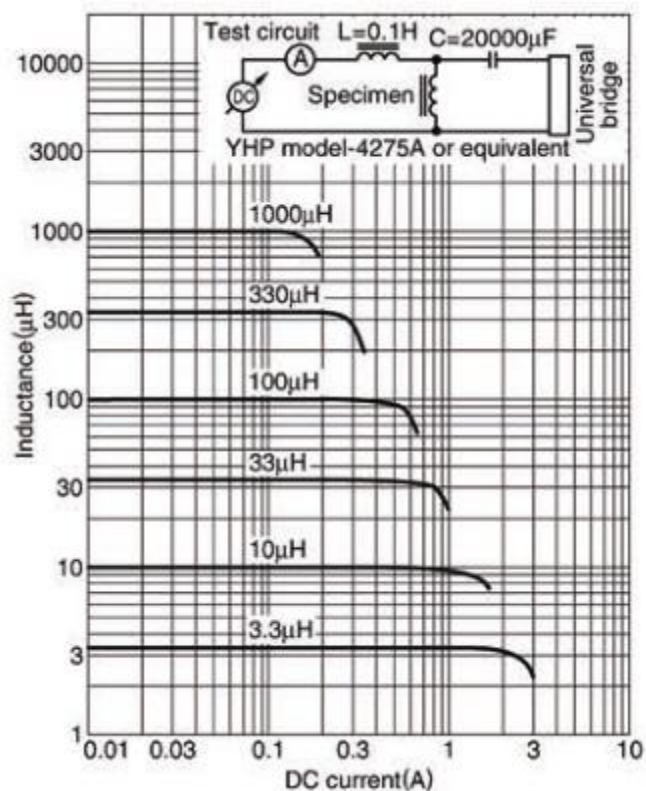


Electrical Characteristics

VEID7032C Series

Part No.	Inductance (μH)	Test Frequency	DCR	Isat	Irms	Marking
			($\text{m}\Omega$) Max	(A) Max.	(A) Typ.	
VEID7032C-3R3N	$3.3 \pm 30\%$	100kHz/0.25V	29.9	1.9	2.08	3R3
VEID7032C-4R7N	$4.7 \pm 30\%$	100kHz/0.25V	38.8	1.7	1.86	4R7
VEID7032C-6R8N	$6.8 \pm 30\%$	100kHz/0.25V	53.3	1.6	1.78	6R8
VEID7032C-100M	$10 \pm 20\%$	1kHz/0.25V	69.2	1.4	1.62	100
VEID7032C-150M	$15 \pm 20\%$	1kHz/0.25V	97.5	1.1	1.33	150
VEID7032C-220M	$22 \pm 20\%$	1kHz/0.25V	143	0.96	1.02	220
VEID7032C-330M	$33 \pm 20\%$	1kHz/0.25V	208	0.75	0.86	330
VEID7032C-470M	$47 \pm 20\%$	1kHz/0.25V	312	0.67	0.80	470
VEID7032C-680M	$68 \pm 20\%$	1kHz/0.25V	405	0.59	0.63	680
VEID7032C-101M	$100 \pm 20\%$	1kHz/0.25V	585	0.45	0.52	101
VEID7032C-151M	$150 \pm 20\%$	1kHz/0.25V	845	0.37	0.43	151
VEID7032C-221M	$220 \pm 20\%$	1kHz/0.25V	1365	0.29	0.33	221
VEID7032C-331M	$330 \pm 20\%$	1kHz/0.25V	2171	0.22	0.28	331
VEID7032C-471M	$470 \pm 20\%$	1kHz/0.25V	2665	0.20	0.25	471
VEID7032C-681M	$680 \pm 20\%$	1kHz/0.25V	4095	0.16	0.20	681
VEID7032C-102M	$1000 \pm 20\%$	1kHz/0.25V	6214	0.13	0.18	102

Test Instruments YHP model-4275A or equivalent

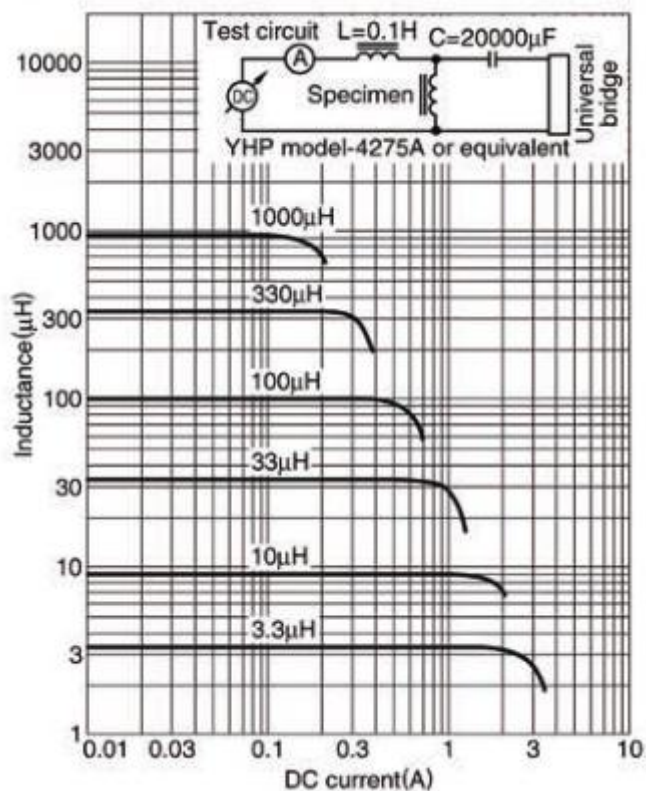


Electrical Characteristics

VEID7046C Series

Part No.	Inductance (μH)	Test Frequency	DCR	Isat	Irms	Marking
			($\text{m}\Omega$) Max	(A) Max.	(A) Typ.	
VEID7046C-3R3N	$3.3 \pm 30\%$	100kHz/0.25V	26	2.5	2.3	3R3
VEID7046C-4R7N	$4.7 \pm 30\%$	100kHz/0.25V	39	2.0	2.1	4R7
VEID7046C-6R8N	$6.8 \pm 30\%$	100kHz/0.25V	50.7	1.7	1.78	6R8
VEID7046C-100M	$10 \pm 20\%$	1kHz/0.25V	59.8	1.3	1.70	100
VEID7046C-150M	$15 \pm 20\%$	1kHz/0.25V	67.6	1.1	1.53	150
VEID7046C-220M	$22 \pm 20\%$	1kHz/0.25V	79.3	0.9	1.34	220
VEID7046C-330M	$33 \pm 20\%$	1kHz/0.25V	124	0.82	1.09	330
VEID7046C-470M	$47 \pm 20\%$	1kHz/0.25V	162	0.75	0.92	470
VEID7046C-680M	$68 \pm 20\%$	1kHz/0.25V	227	0.6	0.77	680
VEID7046C-101M	$100 \pm 20\%$	1kHz/0.25V	325	0.5	0.65	101
VEID7046C-151M	$150 \pm 20\%$	1kHz/0.25V	442	0.4	0.55	151
VEID7046C-221M	$220 \pm 20\%$	1kHz/0.25V	676	0.33	0.45	221
VEID7046C-331M	$330 \pm 20\%$	1kHz/0.25V	962	0.25	0.37	331
VEID7046C-471M	$470 \pm 20\%$	1kHz/0.25V	1365	0.22	0.31	471
VEID7046C-681M	$680 \pm 20\%$	1kHz/0.25V	1924	0.2	0.27	681
VEID7046C-102M	$1000 \pm 20\%$	1kHz/0.25V	2964	0.14	0.25	102

Test Instruments YHP model-4275A or equivalent

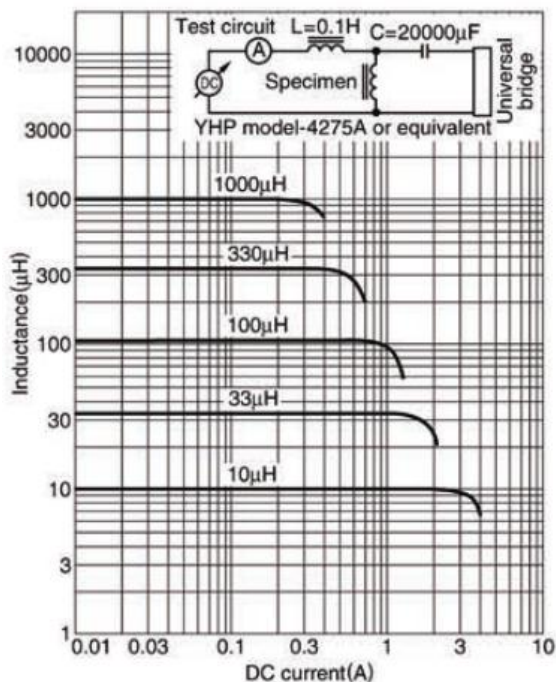


Electrical Characteristics

VEID104C Series

Part No.	Inductance (μH)	Test Frequency	DCR	Isat	Irms	Marking
			($\text{m}\Omega$) Max	(A) Max.	(A) Typ.	
VEID104C-3R3N	$3.3 \pm 30\%$	100kHz/0.25V	20.9	4.9	3.7	3R3
VEID104C-4R7N	$4.7 \pm 30\%$	100kHz/0.25V	26	4.5	4.0	4R7
VEID104C-5R6N	$5.6 \pm 30\%$	100kHz/0.25V	28.6	3.8	3.2	5R6
VEID104C-100M	$10 \pm 20\%$	1kHz/0.25V	46	3.0	2.5	100
VEID104C-150M	$15 \pm 20\%$	1kHz/0.25V	60	2.4	2.2	150
VEID104C-220M	$22 \pm 20\%$	1kHz/0.25V	76	2.1	1.9	220
VEID104C-330M	$33 \pm 20\%$	1kHz/0.25V	105	1.6	1.7	330
VEID104C-470M	$47 \pm 20\%$	1kHz/0.25V	130	1.4	1.5	470
VEID104C-680M	$68 \pm 20\%$	1kHz/0.25V	250	1.2	1.3	680
VEID104C-101M	$100 \pm 20\%$	1kHz/0.25V	260	1.0	1.1	101
VEID104C-151M	$150 \pm 20\%$	1kHz/0.25V	455	0.79	0.81	151
VEID104C-221M	$220 \pm 20\%$	1kHz/0.25V	611	0.65	0.70	221
VEID104C-271M	$270 \pm 20\%$	1kHz/0.25V	754	0.58	0.60	271
VEID104C-331M	$330 \pm 20\%$	1kHz/0.25V	884	0.54	0.58	331
VEID104C-471M	$470 \pm 20\%$	1kHz/0.25V	1339	0.47	0.47	471
VEID104C-681M	$680 \pm 20\%$	1kHz/0.25V	2080	0.38	0.38	681
VEID104C-102M	$1000 \pm 20\%$	1kHz/0.25V	3640	0.32	0.29	102
VEID104C-152M	$1500 \pm 20\%$	1kHz/0.25V	4420	0.22	0.26	152

Test Instruments YHP model-4275A or equivalent

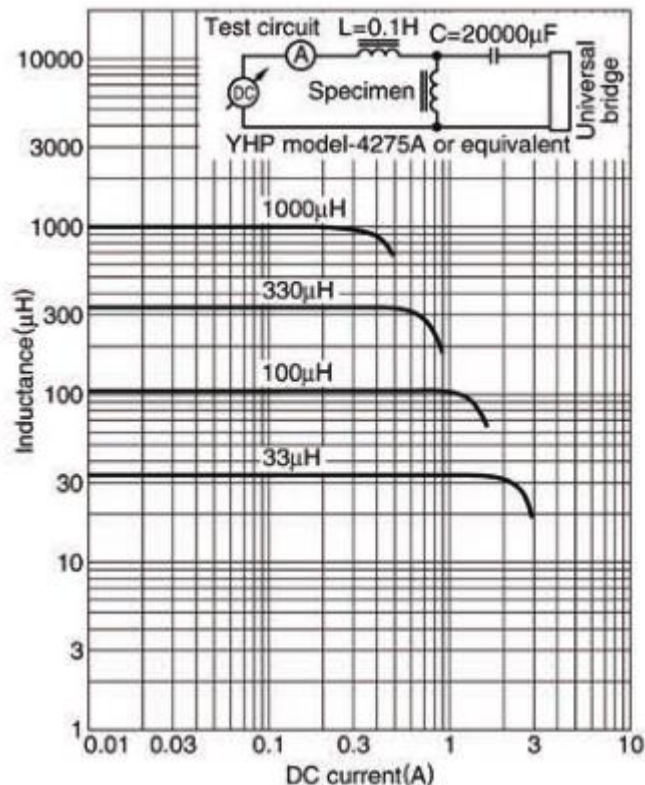


Electrical Characteristics

VEID125C Series

Part No.	Inductance (uH)	Test Frequency	DCR	Isat	Irms	Marking
			(mΩ) Max	(A) Max.	(A) Typ.	
VEID125C-6R8N	6.8±30%	100kHz/0.25V	21.3	3.6	4.9	6R8
VEID125C-100M	10±20%	1kHz/0.25V	27.9	3.4	4.3	100
VEID125C-150M	15±20%	1kHz/0.25V	33.6	2.8	3.9	150
VEID125C-220M	22±20%	1kHz/0.25V	43.9	2.3	3.4	220
VEID125C-330M	33±20%	1kHz/0.25V	53.3	1.9	3.1	330
VEID125C-470M	47±20%	1kHz/0.25V	80.3	1.6	2.5	470
VEID125C-680M	68±20%	1kHz/0.25V	108	1.3	2.2	680
VEID125C-101M	100±20%	1kHz/0.25V	152	1.1	1.8	101
VEID125C-151M	150±20%	1kHz/0.25V	247	0.88	1.4	151
VEID125C-221M	220±20%	1kHz/0.25V	351	0.72	1.2	221
VEID125C-331M	330±20%	1kHz/0.25V	533	0.59	1.0	331
VEID125C-471M	470±20%	1kHz/0.25V	676	0.49	0.88	471
VEID125C-681M	680±20%	1kHz/0.25V	988	0.43	0.73	681
VEID125C-102M	1000±20%	1kHz/0.25V	1456	0.34	0.6	102
VEID125C-152M	1500±20%	1kHz/0.25V	2249	0.29	0.48	152

Test Instruments YHP model-4275A or equivalent

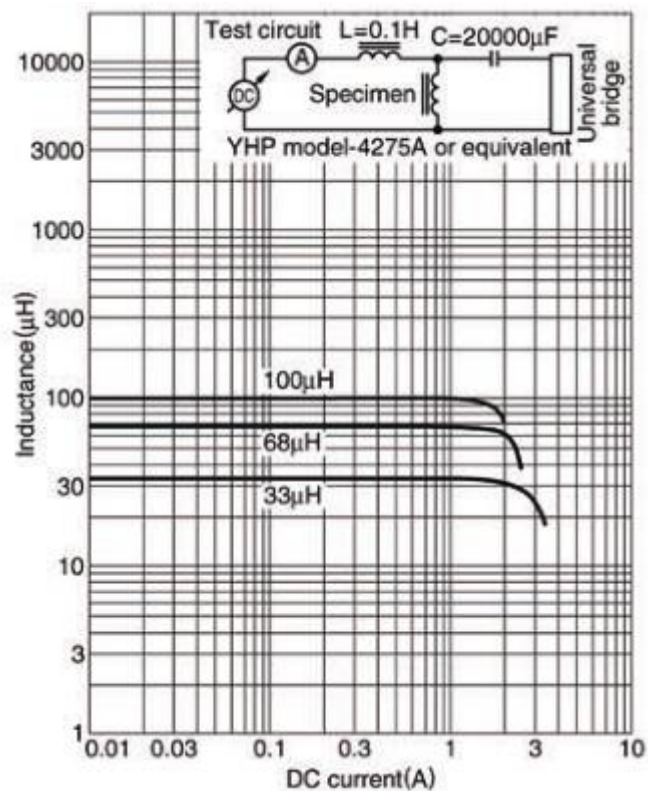


Electrical Characteristics

VEID126C Series

Part No.	Inductance (μH)	Test Frequency	DCR	Isat	Irms	Marking
			($\text{m}\Omega$) Max	(A) Max.	(A) Typ.	
VEID126C-2R2N	$2.2 \pm 30\%$	100kHz/0.25V	15.2	10	6.2	2R2
VEID126C-4R7N	$4.7 \pm 30\%$	100kHz/0.25V	19.7	7.3	5.5	4R7
VEID126C-6R8N	$6.8 \pm 30\%$	100kHz/0.25V	23.0	5.7	5.0	6R8
VEID126C-100M	$10 \pm 20\%$	1kHz/0.25V	26.2	5.0	4.8	100
VEID126C-150M	$15 \pm 20\%$	1kHz/0.25V	30.8	4.2	4.4	150
VEID126C-220M	$22 \pm 20\%$	1kHz/0.25V	41.0	3.5	3.8	220
VEID126C-330M	$33 \pm 20\%$	1kHz/0.25V	52.7	2.8	3.4	330
VEID126C-470M	$47 \pm 20\%$	1kHz/0.25V	75.1	2.4	2.8	470
VEID126C-680M	$68 \pm 20\%$	1kHz/0.25V	102	2.0	2.4	680
VEID126C-101M	$100 \pm 20\%$	1kHz/0.25V	159	1.6	1.9	101
VEID126C-221M	$220 \pm 20\%$	1kHz/0.25V	354	1.0	1.2	221

Test Instruments YHP model-4275A or equivalent

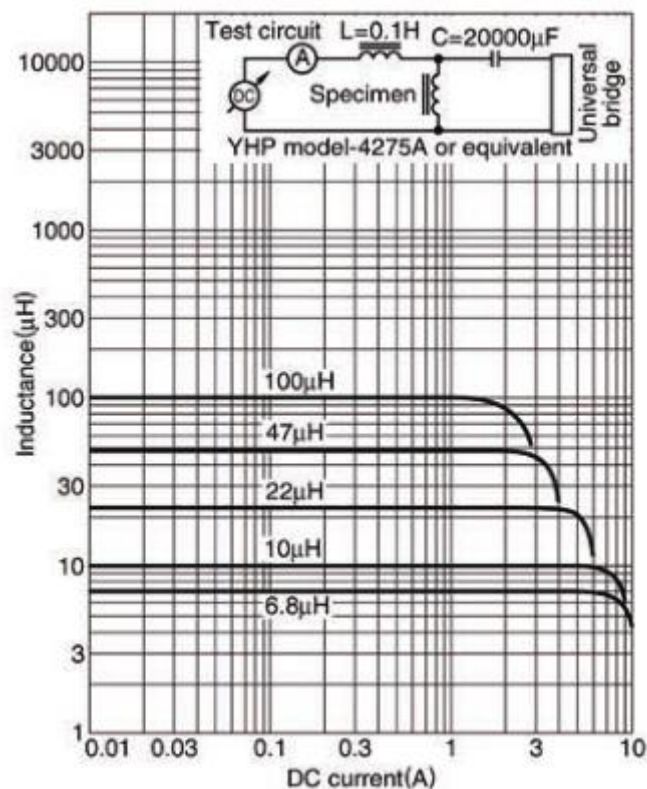


Electrical Characteristics

VEID127C Series

Part No.	Inductance (uH)	Test Frequency	DCR	Isat	Irms	Marking
			(mΩ) Max	(A) Max.	(A) Typ.	
VEID127C-1R2N	1.2 ± 30%	100kHz/0.25V	8.9	13	8.2	1R2
VEID127C-2R7N	2.7 ± 30%	100kHz/0.25V	12.2	10	7.0	2R7
VEID127C-3R9N	3.9 ± 30%	100kHz/0.25V	13.5	9.0	6.7	3R9
VEID127C-5R6N	5.6 ± 30%	100kHz/0.25V	15.0	7.8	6.3	5R6
VEID127C-6R8N	6.8 ± 30%	100kHz/0.25V	17.0	7.2	5.9	6R8
VEID127C-100M	10 ± 20%	1kHz/0.25V	20.2	5.5	5.4	100
VEID127C-150M	15 ± 20%	1kHz/0.25V	23.9	4.7	5.0	150
VEID127C-220M	22 ± 20%	1kHz/0.25V	34.1	4.0	4.0	220
VEID127C-330M	33 ± 20%	1kHz/0.25V	51.3	3.2	3.4	330
VEID127C-470M	47 ± 20%	1kHz/0.25V	68.6	2.7	3.0	470
VEID127C-680M	68 ± 20%	1kHz/0.25V	101	2.0	2.4	680
VEID127C-101M	100 ± 20%	1kHz/0.25V	162	1.9	1.9	101
VEID127C-151M	150 ± 20%	1kHz/0.25V	227	1.5	1.6	151
VEID127C-221M	220 ± 20%	1kHz/0.25V	335	1.3	1.3	221

Test Instruments YHP model-4275A or equivalent



Supplier Information

Supplier:

Shenzhen Volume Source Electronics Co., Ltd.

Manufacturer:


ShenzhenVolume Source Electronics Co., Ltd.


Manufacturing Address:

Address: 16th Floor, Building T5-N4, Tian'an Digital City, Fenggang, Dongguan

Tel: 0769-89891993 Fax: 0769-89891993-806

E-mail: yhp@volumesz.com.cn

 [Http://www.volumesz.com.cn](http://www.volumesz.com.cn)

M. P: 13316585579  Mr. Yu