

MINIATURE SMD CHIP CHOKE COILS—VEQH Series

Applications:

- Pagers, Cordless phone.
- High Freq. Communication Products.
- Personal computers.
- Disk Drives and computer peripherals.
- DC power supply circuits.



Features :

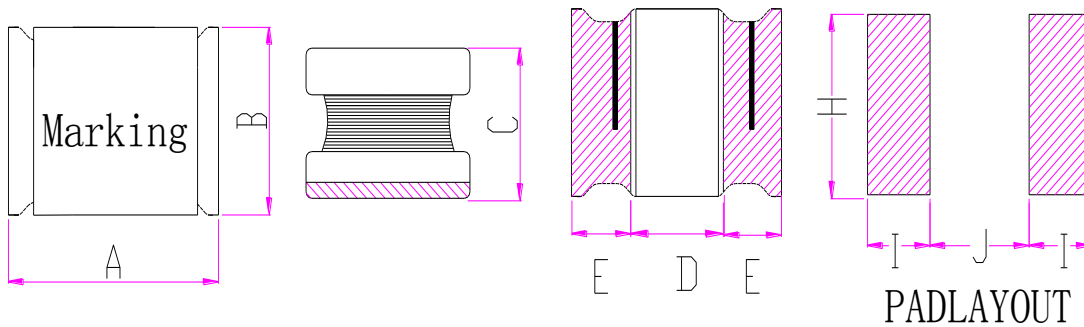
- These miniature chip inductors wound on a special ferrite core.
- Are low DC resistance, high current capacity, and high impedance characteristics.
- They are excellent for use as choke coil in DC power supply circuits.

Product Identification :

VEQH 2220 - 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	H	I	J
VEQH1206	3.2 ± 0.3	1.6 ± 0.3	1.8 ± 0.3	1.0Typ	1.0Typ	1.5	1.5	1.0
VEQH1210	3.2 ± 0.3	2.5 ± 0.3	2.0 ± 0.3	1.0Typ	1.0Typ	2.0	1.5	1.0
VEQH1812	4.5 ± 0.3	3.2 ± 0.3	2.6 ± 0.3	1.7Typ	1.4Typ	3.0	2.0	1.2
VEQH2220	5.7 ± 0.3	5.0 ± 0.3	4.7 ± 0.3	2.3Typ	1.7Typ	5.0	2.0	2.0

Characteristics :

- Saturation Current (I_{sat}): The current when the inductance becomes 20% 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 : $-30^\circ\text{C} \sim +105^\circ\text{C}$.
- 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 HP 4284A, VR116/VR7210.
- DCR: Milli-ohm meter, VR131.
- Electrical specifications at 25°C .

Electrical Characteristics

VEQH1206 Series

Part No.	Inductance (uH)	Test Frequency	DCR	SRF	Rated Current	Marking
			(Ω) Max	(MHz) Min.	(mA) Max.	
VEQH1206-R22N	0.22 \pm 30%	100kHz/0.25V	0.140	250	850	/
VEQH1206-R47N	0.47 \pm 30%	100kHz/0.25V	0.210	180	700	/
VEQH1206-1R0M	1.0 \pm 20%	100kHz/0.25V	0.364	100	510	/
VEQH1206-2R2M	2.2 \pm 20%	100kHz/0.25V	0.533	50	430	/
VEQH1206-4R7M	4.7 \pm 20%	100kHz/0.25V	0.845	31	340	/
VEQH1206-100M	10 \pm 20%	1kHz/0.25V	1.690	20	230	/
VEQH1206-220M	22 \pm 20%	1kHz/0.25V	3.900	14	160	/
VEQH1206-470M	47 \pm 20%	1kHz/0.25V	10.40	10	100	/
VEQH1206-101K	100 \pm 10%	1kHz/0.25V	15.60	7	80	/

VEQH1210 Series

Part No.	Inductance (uH)	Test Frequency	DCR	SRF	Rated Current	Marking
			(Ω) Max	(MHz) Min.	(mA) Max.	
VEQH1210-1R0M	1.0 \pm 20%	100kHz/0.25V	0.078	100	1000	/
VEQH1210-2R2M	2.2 \pm 20%	100kHz/0.25V	0.126	64	790	/
VEQH1210-4R7M	4.7 \pm 20%	100kHz/0.25V	0.195	43	450	/
VEQH1210-100M	10 \pm 20%	1kHz/0.25V	0.450	26	1.2	/
VEQH1210-220M	22 \pm 20%	1kHz/0.25V	0.923	19	250	/
VEQH1210-470M	47 \pm 20%	1kHz/0.25V	1.69	12	170	/
VEQH1210-101K	100 \pm 20%	1kHz/0.25V	4.55	8	100	/
VEQH1210-221K	220 \pm 20%	1kHz/0.25V	10.92	5.5	70	/
VEQH1210-331K	330 \pm 20%	1kHz/0.25V	13.00	4.5	68	/
VEQH1210-391K	390 \pm 20%	1kHz/0.25V	22.10	4	65	/
VEQH1210-471K	470 \pm 20%	1kHz/0.25V	24.70	3.7	63	/
VEQH1210-561K	560 \pm 20%	1kHz/0.25V	28.60	3.4	60	/

Electrical Characteristics

VEQH1812 Series

Part No.	Inductance (uH)	Test Frequency	DCR	SRF	Rated Current	Marking
			(Ω) Max	(MHz) Min.	(mA) Max.	
VEQH1812-1R0M	1.0 \pm 20%	100kHz/0.25V	0.08	100	1080	1R0
VEQH1812-1R5M	1.5 \pm 20%	100kHz/0.25V	0.09	85	1000	1R5
VEQH1812-2R2M	2.2 \pm 20%	100kHz/0.25V	0.11	60	900	2R2
VEQH1812-3R3M	3.3 \pm 20%	100kHz/0.25V	0.13	47	800	3R3
VEQH1812-4R7M	4.7 \pm 20%	100kHz/0.25V	0.15	35	750	4R7
VEQH1812-6R8M	6.8 \pm 20%	100kHz/0.25V	0.20	30	720	6R8
VEQH1812-100M	10 \pm 20%	1kHz/0.25V	0.24	23	650	100
VEQH1812-150M	15 \pm 20%	1kHz/0.25V	0.32	20	570	150
VEQH1812-220M	22 \pm 20%	1kHz/0.25V	0.60	15	420	220
VEQH1812-330M	33 \pm 20%	1kHz/0.25V	1.0	12	310	330
VEQH1812-470M	47 \pm 20%	1kHz/0.25V	1.1	10	280	470
VEQH1812-680M	68 \pm 20%	1kHz/0.25V	1.7	8.4	220	680
VEQH1812-101K	100 \pm 10%	1kHz/0.25V	2.2	6.8	190	101
VEQH1812-151K	150 \pm 10%	1kHz/0.25V	3.5	5.5	130	151
VEQH1812-221K	220 \pm 10%	1kHz/0.25V	4.0	4.5	110	221
VEQH1812-331K	330 \pm 10%	1kHz/0.25V	6.8	3.6	100	331
VEQH1812-471K	470 \pm 10%	1kHz/0.25V	8.5	3.0	90	471

Electrical Characteristics

VEQH2220 Series

Part No.	Inductance (μ H)	Test Frequency	DCR	SRF	Rated Current	Marking
			(Ω) Max	(MHz) Min.	(mA) Max.	
VEQH2220-R12N	0.12 \pm 30%	100kHz/0.25V	0.0098	450	6000	R12
VEQH2220-R27N	0.27 \pm 30%	100kHz/0.25V	0.0140	300	5300	R27
VEQH2220-R47N	0.47 \pm 30%	100kHz/0.25V	0.0182	200	4800	R47
VEQH2220-1R0M	1.0 \pm 20%	100kHz/0.25V	0.0270	150	4000	1R0
VEQH2220-1R5M	1.5 \pm 20%	100kHz/0.25V	0.0310	110	3700	1R5
VEQH2220-2R2M	2.2 \pm 20%	100kHz/0.25V	0.0410	80	3200	2R2
VEQH2220-3R3M	3.3 \pm 20%	100kHz/0.25V	0.0500	40	2900	3R3
VEQH2220-4R7M	4.7 \pm 20%	100kHz/0.25V	0.0574	30	2700	4R7
VEQH2220-6R8M	6.8 \pm 20%	100kHz/0.25V	0.1040	25	2000	6R8
VEQH2220-100M	10 \pm 20%	1kHz/0.25V	0.1200	20	3000	100
VEQH2220-150M	15 \pm 20%	1kHz/0.25V	0.210	17	1400	150
VEQH2220-220M	22 \pm 20%	1kHz/0.25V	0.266	15	1200	220
VEQH2220-330M	33 \pm 20%	1kHz/0.25V	0.448	12	900	330
VEQH2220-470M	47 \pm 20%	1kHz/0.25V	0.560	10	800	470
VEQH2220-680M	68 \pm 20%	1kHz/0.25V	0.938	7.6	640	680
VEQH2220-101K	100 \pm 10%	1kHz/0.25V	1.204	6.5	560	101
VEQH2220-151K	150 \pm 10%	1kHz/0.25V	2.660	5.0	420	151
VEQH2220-221K	220 \pm 10%	1kHz/0.25V	3.360	4.0	320	221
VEQH2220-331K	330 \pm 10%	1kHz/0.25V	6.160	3.1	270	331
VEQH2220-471K	470 \pm 10%	1kHz/0.25V	7.560	2.4	240	471
VEQH2220-681K	680 \pm 10%	1kHz/0.25V	11.34	1.9	190	681
VEQH2220-102K	1000 \pm 10%	1kHz/0.25V	14.42	1.7	150	102
VEQH2220-222K	2200 \pm 10%	1kHz/0.25V	30.10	1.2	100	222
VEQH2220-472K	4700 \pm 10%	1kHz/0.25V	61.04	0.8	70	472
VEQH2220-103K	10000 \pm 10%	1kHz/0.25V	140.0	0.5	50	103

Supplier Information

Supplier:

Shenzhen Volume Source Electronics Co., Ltd.

Manufacturer:


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