



VC SERIES

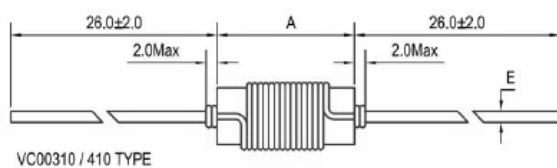
VARNISH COATED.

Applications :

- TVs and Audio equipment.
- Telecommunication devices.
- RF filters.

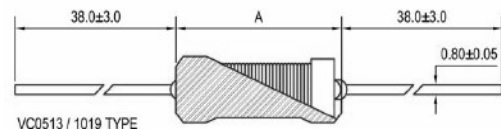


Shape and Dimensions (Dimensions are in mm) :



VC00310 / 410 TYPE

Item	A Max.	D Max.	E±0.05
VC0310	10.5	4.5	0.65
VC0410	10.5	5.5	0.80



VC0513 / 1019 TYPE

Item	A Max.	D Max.	E±0.05
VC0513	16.5	6.6	0.80
VC1019	23.0	11.5	0.80



Features :

- Low cost power inductor.
- High current choke.
- Wide inductance range.
- High saturation ferrite core.
- Coated with varnish or covered with UL shrink tube.
- Tape and reel packaging for automatic insertion.
- RoHS compliant.

Product Identification :

VC 0410 - 1R0 K - UL - T5

(1) (2) (3) (4) (5) (6)

- (1) Series: **V**arnish **C**oated.
- (2) Style: according to core size.
- (3) Inductance: **1R0** for **1.0**uH.
- (4) Inductance tolerance: **K**: ± 10%.
- (5) Sleeve: "**UL**": UL Tube, black; No code: no sleeve.
- (6) Packing: **T5**: Tape; No code: Bulk

Characteristics :

- Temperature Rise Current(I_{rms}): The current when temperature of coil increase up to max.
 $\Delta T=40^{\circ}\text{C}.$ ($T_a=20^{\circ}\text{C}$)
- Operating temperature : -25°C to 125°C .

Test equipments :

- L test by Wayne Kerr 3260B LCR meter with Wayne Kerr 3265B Bias Current Source.
- DCR tested by Milli-ohm meter.
- Electrical specifications at 25°C .



● **VC0310 / 0410 series**

Part No.	L (uH)	Q Min.	L / Q TestFreq MHz	SRF (MHz) Min.	DCR (Ω) Max.	Temperature Rise Current (mA)Max.	Core material
VC0310-1R0M	1.0	40	25.2	160	0.017	1800	Ferrite
VC0310-2R2K	2.2	20	7.96	150	0.025	1600	Ferrite
VC0310-4R7K	4.7	25	7.96	135	0.090	1400	Ferrite
VC0310-100K	10	20	7.96	50	0.220	1200	Ferrite
VC0410-1R2K	1.2	55	7.96	150	0.063	1580	Ferrite
VC0410-1R5K	1.5	55	7.96	135	0.071	1500	Ferrite
VC0410-1R8K	1.8	55	7.96	125	0.078	1450	Ferrite
VC0410-2R2K	2.2	55	7.96	115	0.088	1380	Ferrite
VC0410-2R7K	2.7	55	7.96	105	0.098	1320	Ferrite
VC0410-3R3K	3.3	60	7.96	90	0.205	870	Ferrite
VC0410-3R9K	3.9	60	7.96	85	0.225	840	Ferrite
VC0410-4R7K	4.7	60	7.96	80	0.25	800	Ferrite
VC0410-5R6K	5.6	60	7.96	70	0.28	750	Ferrite
VC0410-6R8K	6.8	60	7.96	65	0.31	710	Ferrite
VC0410-8R2K	8.2	55	7.96	60	0.35	680	Ferrite
VC0410-100K	10	55	7.96	40	0.39	640	Ferrite
VC0410-120K	12	65	2.52	40	0.67	450	Ferrite
VC0410-150K	15	65	2.52	40	0.76	430	Ferrite
VC0410-180K	18	70	2.52	36	0.85	410	Ferrite
VC0410-220K	22	70	2.52	33	0.96	390	Ferrite
VC0410-270K	27	70	2.52	31	1.10	360	Ferrite
VC0410-330K	33	65	2.52	29	1.24	345	Ferrite
VC0410-390K	39	65	2.52	26	1.37	330	Ferrite
VC0410-470K	47	60	2.52	23	1.65	315	Ferrite
VC0410-560K	56	55	2.52	20	1.95	300	Ferrite



● **VC0513 series**

Part No.	L @1kHz (uH)	DCR (Ω) Max.	Temperature Rise Current (A) Max.
VC0513-3R9K-□□	3.9	0.019	1.28
VC0513-4R7K-□□	4.7	0.022	1.28
VC0513-5R6K-□□	5.6	0.024	1.28
VC0513-6R8K-□□	6.8	0.026	1.28
VC0513-8R2K-□□	8.2	0.028	1.28
VC0513-100K-□□	10	0.033	1.28
VC0513-120K-□□	12	0.037	1.28
VC0513-150K-□□	15	0.040	1.28
VC0513-180K-□□	18	0.044	1.28
VC0513-220K-□□	22	0.050	1.28
VC0513-270K-□□	27	0.058	1.28
VC0513-330K-□□	33	0.075	1.008
VC0513-390K-□□	39	0.094	0.804
VC0513-470K-□□	47	0.109	0.804
VC0513-560K-□□	56	0.140	0.804
VC0513-680K-□□	68	0.145	0.804
VC0513-820K-□□	82	0.152	0.804
VC0513-101K-□□	100	0.208	0.632
VC0513-121K-□□	120	0.283	0.508
VC0513-151K-□□	150	0.340	0.508
VC0513-181K-□□	180	0.362	0.508
VC0513-221K-□□	220	0.430	0.508
VC0513-271K-□□	270	0.557	0.400
VC0513-331K-□□	330	0.665	0.400
VC0513-391K-□□	390	0.772	0.400
VC0513-471K-□□	470	1.15	0.315
VC0513-561K-□□	560	1.27	0.315
VC0513-681K-□□	680	1.61	0.250
VC0513-821K-□□	820	1.96	0.200
VC0513-102K-□□	1000	2.30	0.200
VC0513-122K-□□	1200	2.65	0.200
VC0513-152K-□□	1500	3.45	0.158
VC0513-182K-□□	1800	4.03	0.158
VC0513-222K-□□	2200	4.48	0.158
VC0513-272K-□□	2700	5.90	0.125
VC0513-332K-□□	3300	6.56	0.125
VC0513-392K-□□	3900	8.63	0.100
VC0513-472K-□□	4700	10.5	0.100
VC0513-562K-□□	5600	13.9	0.082
VC0513-682K-□□	6800	16.3	0.082
VC0513-822K-□□	8200	20.8	0.065
VC0513-103K-□□	10000	26.4	0.050
VC0513-123K-□□	12000	29.2	0.050
VC0513-153K-□□	15000	42.5	0.039
VC0513-183K-□□	18000	48.3	0.031



● **VC1019 series**

Part No.	L @1kHz (uH)	DCR (Ω) Max.	Temperature Rise Current (A)Max.
VC1019-3R9K-UL	3.9	0.007	4.0
VC1019-4R7K-UL	4.7	0.008	4.0
VC1019-6R8K-UL	6.8	0.011	4.0
VC1019-100K-UL	10	0.017	4.0
VC1019-150K-UL	15	0.022	4.0
VC1019-220K-UL	22	0.026	4.0
VC1019-270K-UL	27	0.027	4.0
VC1019-330K-UL	33	0.032	4.0
VC1019-390K-UL	39	0.033	4.0
VC1019-470K-UL	47	0.035	4.0
VC1019-560K-UL	56	0.037	3.2
VC1019-680K-UL	68	0.047	2.5
VC1019-820K-UL	82	0.060	2.0
VC1019-101K-UL	100	0.090	1.6
VC1019-121K-UL	120	0.113	1.6
VC1019-151K-UL	150	0.129	1.6
VC1019-181K-UL	180	0.150	1.6
VC1019-221K-UL	220	0.162	1.6
VC1019-271K-UL	270	0.208	1.6
VC1019-331K-UL	330	0.212	1.6
VC1019-391K-UL	390	0.281	1.6
VC1019-471K-UL	470	0.380	1.2
VC1019-561K-UL	560	0.420	1.0
VC1019-681K-UL	680	0.548	1.0
VC1019-821K-UL	820	0.655	0.8
VC1019-102K-UL	1000	0.844	0.8
VC1019-122K-UL	1200	1.04	0.6
VC1019-152K-UL	1500	1.18	0.6
VC1019-182K-UL	1800	1.56	0.6
VC1019-222K-UL	2200	2.00	0.5
VC1019-272K-UL	2700	2.06	0.4
VC1019-332K-UL	3300	2.53	0.4
VC1019-392K-UL	3900	2.75	0.4
VC1019-472K-UL	4700	3.19	0.4
VC1019-562K-UL	5600	3.92	0.315
VC1019-682K-UL	6800	5.69	0.250
VC1019-822K-UL	8200	6.32	0.250
VC1019-103K-UL	10000	7.30	0.250
VC1019-153K-UL	15000	10.5	0.200
VC1019-223K-UL	22000	21.8	0.125
VC1019-333K-UL	33000	25.7	0.125
VC1019-473K-UL	47000	36.1	0.100
VC1019-683K-UL	68000	57.3	0.082
VC1019-104K-UL	100000	89.7	0.065

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.