



## PK SERIES

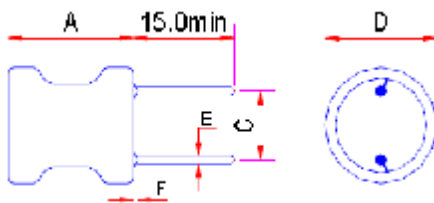
PEAKING COILS.

### Applications:

- TVs and Audio equipment.
- Telecommunication devices.
- Personal computer.
- Switching Power Supply.
- Other noise filter.



### Shape and Dimensions(Dimensions are in mm) :



Item	A Max.	C	D Max.	E±0.05
PK0406	8.0	2.0±0.5	5.5	0.55
PK0608	11.0	2.5±0.5	7.5	0.65
PK0707	9.5	5.0±1.0	8.5	0.65
PK0807	9.5	5.0±1.0	10.0	0.55
PK0810	13.0	5.0+±1.0	10.0	0.65

Item	A Max.	C	D Max.	E±0.05
PK1010	13.0	5.0+±1.0	12.0	0.80
PK1012	15.0	6.0+±1.0	12.0	0.80
PK1018	21.0	6.0±1.0	12.0	0.80
PK1213	16.0	7.50±1.0	14.0	0.80

### Features :

- Low cost.
- Wide range of inductance.
- Small mounting space required.
- 0406 type with excellent characteristics for high Q.
- The other types with low DCR, high current, best for the power supply line.
- Tape packaging for auto-insertion.

### Characteristics :

- Rated Current : It is either the inductance is 10% lower is than its initial value in DC. saturation characteristics or temperature rise becomes  $\Delta T=20^{\circ}\text{C}$  ( $T_a=20$ ) Whichever lower.
- Operating temperature :  $-20$  to  $85^{\circ}\text{C}$ .

### Product Identification :

#### PK 0608 – 503 K – UL – TF

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

- (1) Type: **Peaking coils.**
- (2) Style : Core size, **OD=6 mm , L=8 mm.**
- (3) Inductance: **“503”** for **50 mH.**
- (4) Tolerance: **“J”**:  $\pm 5\%$ ; **“K”**:  $\pm 10\%$ ; **“M”**:  $\pm 20\%$ .
- (5) Sleeve: UL tube, Black,  $125^{\circ}\text{C}$ ; No code: NO sleeve
- (6) Taping Mode: **TF** Taping; No code: bulk

### Test equipments :

- L&Q: HP 4285A or HP 4284A.
- DCR: Milli-ohm meter.
- SRF: HM 9461 L-SRF meter.
- Electrical specifications at  $25^{\circ}\text{C}$ .


**● PK0406 series**

Part No.	L @1kHz ( uH )	Q Min.	Q Test Freq.	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
PK0406-1R0M-□□	1.0	100	7.96MHz	120	0.035	2000
PK0406-1R2M-□□	1.2	100	7.96 MHz	120	0.058	1950
PK0406-1R5M-□□	1.5	100	7.96 MHz	120	0.075	1900
PK0406-1R8M-□□	1.8	100	7.96 MHz	120	0.110	1800
PK0406-2R2M-□□	2.2	100	7.96 MHz	100	0.120	1750
PK0406-2R7M-□□	2.7	100	7.96 MHz	80	0.125	1680
PK0406-3R3M-□□	3.3	100	7.96 MHz	75	0.130	1500
PK0406-3R9K-□□	3.9	100	7.96 MHz	70	0.135	1450
PK0406-4R7K-□□	4.7	100	7.96 MHz	50	0.140	1320
PK0406-5R6K-□□	5.6	100	7.96 MHz	45	0.145	1230
PK0406-6R8K-□□	6.8	100	7.96 MHz	30	0.15	1150
PK0406-8R2K-□□	8.2	100	7.96 MHz	22	0.16	1100
PK0406-100K-□□	10	80	2.52 MHz	20	0.23	1000
PK0406-120K-□□	12	80	2.52 MHz	17	0.24	970
PK0406-150K-□□	15	80	2.52 MHz	16	0.25	920
PK0406-180K-□□	18	80	2.52 MHz	12	0.33	860
PK0406-220K-□□	22	80	2.52 MHz	10	0.45	800
PK0406-270K-□□	27	80	2.52 MHz	9.5	0.50	710
PK0406-330K-□□	33	80	2.52 MHz	8.7	0.70	660
PK0406-390K-□□	39	70	2.52 MHz	8.2	0.74	600
PK0406-470K-□□	47	70	2.52 MHz	7.8	0.76	550
PK0406-560K-□□	56	50	2.52 MHz	7.6	0.80	500
PK0406-680K-□□	68	50	2.52 MHz	6.8	0.90	470
PK0406-820K-□□	82	50	2.52 MHz	6.0	0.95	430
PK0406-101K-□□	100	45	796kHz	6.0	1.0	400
PK0406-121K-□□	120	45	796kHz	5.5	1.1	370
PK0406-151K-□□	150	65	796kHz	4.2	1.3	350
PK0406-181k-□□	180	65	796kHz	3.6	1.5	320
PK0406-221k-□□	220	65	796kHz	2.8	1.8	300
PK0406-271k-□□	270	50	796kHz	2.4	1.9	275
PK0406-331K-□□	330	50	796kHz	2.2	2.2	250
PK0406-391K-□□	390	50	796kHz	2.0	2.7	220
PK0406-471K-□□	470	50	796kHz	1.7	3.6	200
PK0406-561K-□□	560	50	796kHz	1.5	4.2	190
PK0406-681K-□□	680	50	796kHz	1.3	4.6	170
PK0406-821K-□□	820	50	796kHz	1.1	5.7	155
PK0406-102K-□□	1000	90	252kHz	1.0	6.7	150
PK0406-122K-□□	1200	90	252kHz	0.9	8.2	140
PK0406-152K-□□	1500	80	252kHz	0.8	13	120
PK0406-182K-□□	1800	80	252kHz	0.8	15	110
PK0406-222K-□□	2200	80	252kHz	0.8	17	100
PK0406-272K-□□	2700	80	252kHz	0.8	19	90
PK0406-332K-□□	3300	70	252kHz	0.7	26	83
PK0406-392K-□□	3900	70	252kHz	0.65	30	76
PK0406-472K-□□	4700	65	252kHz		45	70
PK0406-562K-□□	5600	65	252kHz		48	62
PK0406-682K-□□	6800	65	252kHz		56	56
PK0406-822K-□□	8200	65	252kHz		62	52
PK0406-103K-□□	10000	45	79.6kHz		72	47
PK0406-153K-□□	15000	45	79.6kHz		120	35
PK0406-223K-□□	22000	45	79.6kHz		160	24
PK0406-253K-□□	25000	45	79.6kHz		180	20


**I PK0608 series**

Part No.	L @1kHz ( $\mu$ H)	Q Min.	Q Test Freq.	DCR ( $\Omega$ ) Max.	Rated Current (mA) Max.
PK0608-3R3K-□□	3.3	20	7.96MHz	0.016	3500
PK0608-4R7K-□□	4.7	20	7.96MHz	0.020	3000
PK0608-6R8K-□□	6.8	20	7.96MHz	0.022	2500
PK0608-100K-□□	10	30	2.52MHz	0.039	2000
PK0608-150K-□□	15	30	2.52MHz	0.045	1700
PK0608-220K-□□	22	30	2.52MHz	0.062	1400
PK0608-330K-□□	33	30	2.52MHz	0.10	1100
PK0608-470K-□□	47	30	2.52MHz	0.15	950
PK0608-680K-□□	68	30	2.52MHz	0.22	800
PK0608-101K-□□	100	20	796kHz	0.35	650
PK0608-151K-□□	150	20	796kHz	0.43	540
PK0608-221K-□□	220	20	796kHz	0.90	440
PK0608-331K-□□	330	20	796kHz	1.50	360
PK0608-471K-□□	470	20	796kHz	1.80	300
PK0608-681K-□□	680	20	796kHz	2.50	250
PK0608-102K-□□	1000	100	252kHz	3.20	200
PK0608-122K-□□	1200	70	252kHz	3.5	180
PK0608-152K-□□	1500	70	252kHz	4.5	170
PK0608-182K-□□	1800	70	252kHz	5.0	155
PK0608-222K-□□	2200	70	252kHz	6.8	140
PK0608-272K-□□	2700	70	252kHz	7.2	125
PK0608-332K-□□	3300	70	252kHz	10.5	115
PK0608-392K-□□	3900	70	252kHz	11.7	105
PK0608-472K-□□	4700	70	252kHz	13.6	95
PK0608-562K-□□	5600	70	252kHz	16.6	85
PK0608-682K-□□	6800	70	252kHz	19.6	80
PK0608-822K-□□	8200	70	252kHz	25.2	70
PK0608-103K-□□	10000	70	79.6kHz	29.5	65
PK0608-123K-□□	12000	50	79.6kHz	33.8	60
PK0608-153K-□□	15000	50	79.6kHz	45.4	55
PK0608-183K-□□	18000	50	79.6kHz	50.4	50
PK0608-223K-□□	22000	50	79.6kHz	80.0	45
PK0608-303K-□□	30000	50	79.6kHz	91.5	40
PK0608-333K-□□	33000	50	79.6kHz	98.5	35
PK0608-393K-□□	39000	50	79.6kHz	140	32
PK0608-473K-□□	47000	50	79.6kHz	160	30
PK0608-503K-□□	50000	50	79.6kHz	170	29
PK0608-563K-□□	56000	50	79.6kHz	250	28
PK0608-683K-□□	68000	50	79.6kHz	282	25
PK0608-823K-□□	82000	50	79.6kHz	312	23
PK0608-104K-□□	100000	30	25.2kHz	380	20
PK0608-124K-□□	120000	30	25.2kHz	430	18
PK0608-154K-□□	150000	30	25.2kHz	520	16


**I PK0707 / 0807 series**

Part No.	L @1kHz (uH)	Q Min.	Q Test Freq.	SRF (MHz) Min.	DCR (Ω) Max.	Saturation Current (A)Max.	Temperature Rise Current (A)Max.
PK0707-1R0M-□□	1.0	10	7.96MHz	70	0.006	6.6	5.0
PK0707-1R5M-□□	1.5	10	7.96MHz	56	0.008	5.4	4.3
PK0707-2R2M-□□	2.2	10	7.96MHz	45	0.011	4.0	3.7
PK0707-3R3M-□□	3.3	10	7.96MHz	36	0.018	3.6	2.9
PK0707-4R7M-□□	4.7	10	7.96MHz	29	0.022	3.1	2.6
PK0707-6R8M-□□	6.8	10	7.96MHz	24	0.028	2.5	2.3
PK0707-100K-□□	10	20	2.52MHz	19	0.043	2.1	1.9
PK0707-150K-□□	15	20	2.52MHz	15	0.056	1.7	1.6
PK0707-220K-□□	22	20	2.52MHz	12	0.086	1.4	1.3
PK0707-330K-□□	33	20	2.52MHz	9.4	0.14	1.1	1.0
PK0707-470K-□□	47	20	2.52MHz	7.6	0.17	0.96	0.94
PK0707-680K-□□	68	20	2.52MHz	6.2	0.28	0.79	0.73
PK0707-101K-□□	100	20	796KHz	5.0	0.33	0.66	0.67
PK0707-151K-□□	150	20	796KHz	4.0	0.56	0.53	0.52
PK0707-221K-□□	220	20	796KHz	3.2	0.72	0.44	0.46
PK0707-331K-□□	330	20	796KHz	2.5	1.10	0.36	0.37
PK0707-471K-□□	470	20	796KHz	2.0	1.70	0.30	0.30
PK0707-681K-□□	680	20	796KHz	1.7	2.30	0.25	0.26
PK0707-102K-□□	1000	70	252KHz	1.3	4.30	0.20	0.19
PK0707-152K-□□	1500	50	252KHz	1.3	5.00	0.17	0.16
PK0807-2R2M-□□	2.2	10	7.96MHz	60	0.011	0.55	4.0
PK0807-3R3M-□□	3.3	10	7.96MHz	38	0.013	3.8	3.4
PK0807-4R7M-□□	4.7	10	7.96MHz	30	0.017	3.7	3.0
PK0807-6R8M-□□	6.8	10	7.96MHz	24	0.023	2.8	2.6
PK0807-100K-□□	10	20	2.52MHz	19	0.031	2.5	2.2
PK0807-150K-□□	15	20	2.52MHz	15	0.042	2.0	1.9
PK0807-220K-□□	22	20	2.52MHz	12	0.070	1.6	1.5
PK0807-330K-□□	33	20	2.52MHz	10	0.092	1.3	1.2
PK0807-470K-□□	47	20	2.52MHz	8.2	0.130	1.1	1.0
PK0807-680K-□□	68	20	2.52MHz	6.6	0.160	0.91	0.97
PK0807-101K-□□	100	15	796KHz	5.4	0.230	0.75	0.81
PK0807-151K-□□	150	15	796KHz	4.3	0.400	0.61	0.61
PK0807-221K-□□	220	15	796KHz	3.5	0.530	0.50	0.53
PK0807-331K-□□	330	15	796KHz	2.8	0.780	0.41	0.44
PK0807-471K-□□	470	10	796KHz	2.3	1.0	0.34	0.39
PK0807-681K-□□	680	10	796KHz	1.9	1.5	0.28	0.32
PK0807-102K-□□	1000	20	252KHz	1.5	2.2	0.23	0.26
PK0807-152K-□□	1500	30	252KHz	1.2	3.5	0.18	0.21

NOTE: Saturation Current(Isat) : the value of inductance decrease within 10%.

Temperature Rise Current(Irms) : Temperature rise of core surface within 20°C.


**PK0810 TYPE**

Part No.	L @1kHz (uH)	Q Min.	L / Q Test Freq.	SRF (MHz) Min.	DCR (Ω) Max.	Rated Current (mA) Max.
PK0810-3R3M-□□	3.3	30	7.96MHz	65	0.012	5000
PK0810-3R9K-□□	3.9	30	7.96MHz	55	0.014	4600
PK0810-4R7K-□□	4.7	30	7.96MHz	45	0.016	4300
PK0810-5R6K-□□	5.6	30	7.96MHz	38	0.020	3900
PK0810-6R8K-□□	6.8	30	7.96MHz	27	0.022	3700
PK0810-8R2K-□□	8.2	30	7.96MHz	21	0.024	3500
PK0810-100K-□□	10	50	2.52MHz	17	0.025	3200
PK0810-120K-□□	12	50	2.52MHz	15	0.027	3000
PK0810-150K-□□	15	50	2.52MHz	13	0.033	2800
PK0810-180K-□□	18	50	2.52MHz	12	0.039	2600
PK0810-220K-□□	22	50	2.52MHz	11	0.047	2400
PK0810-270K-□□	27	50	2.52MHz	10	0.052	2100
PK0810-330K-□□	33	50	2.52MHz	8.5	0.075	1900
PK0810-390K-□□	39	40	2.52MHz	7.7	0.082	1700
PK0810-470K-□□	47	40	2.52MHz	6.7	0.10	1500
PK0810-560K-□□	56	40	2.52MHz	6.4	0.15	1300
PK0810-680K-□□	68	30	2.52MHz	5.8	0.18	1200
PK0810-820K-□□	82	30	2.52MHz	5.2	0.20	1100
PK0810-101K-□□	100	30	796kHz	4.4	0.20	900
PK0810-121K-□□	120	30	796kHz	4.2	0.22	800
PK0810-151K-□□	150	30	796kHz	3.7	0.24	7200
PK0810-181K-□□	180	30	796kHz	3.5	0.28	6500
PK0810-221K-□□	220	20	796kHz	3.3	0.35	600
PK0810-271K-□□	270	20	796kHz	2.9	0.40	550
PK0810-331K-□□	330	20	796kHz	2.6	0.47	500
PK0810-391K-□□	390	20	796kHz	2.4	0.68	460
PK0810-471K-□□	470	20	796kHz	2.2	0.80	420
PK0810-561K-□□	560	20	796kHz	2.0	1.0	380
PK0810-681K-□□	680	20	796kHz	1.8	1.2	350
PK0810-821K-□□	820	20	796kHz	1.7	1.5	310
PK0810-102K-□□	1000	40	252kHz	1.5	1.8	280
PK0810-122K-□□	1200	40	252kHz	1.4	2.0	250
PK0810-152K-□□	1500	40	252kHz	1.3	2.4	230
PK0810-182K-□□	1800	40	252kHz	1.1	2.8	210
PK0810-222K-□□	2200	40	252kHz	1.0	3.3	190
PK0810-272K-□□	2700	40	252kHz	0.88	5.0	170
PK0810-332K-□□	3300	40	252kHz	0.78	5.6	150
PK0810-392K-□□	3900	40	252kHz	0.72	6.2	140
PK0810-472K-□□	4700	40	252kHz	0.65	7.0	130
PK0810-562K-□□	5600	40	252kHz	0.58	9.1	120
PK0810-682K-□□	6800	40	252kHz	0.55	10	110
PK0810-822K-□□	8200	20	252kHz	0.50	15	100
PK0810-103K-□□	10000	20	79.6kHz	0.42	24	90
PK0810-473K-□□	47000	60	79.6kHz	0.20	80	40
PK0810-104K-□□	100000	20	79.6kHz	0.14	180	28


**I PK1010 / 1012 series**

Part No.	L @1kHz ( $\mu$ H)	Q Min.	L / Q Test Freq.	SRF (MHz) Min.	DCR ( $\Omega$ ) Max.	Saturation Current (A)Max.	Temperature Rise Current (A)Max.
PK1010-3R3M-□□	3.3	10	7.96MHz	36	0.010	8.8	5.9
PK1010-4R7M-□□	4.7	10	7.96MHz	28	0.015	7.2	4.8
PK1010-6R8M-□□	6.8	10	7.96MHz	18	0.016	6.1	4.6
PK1010-100M-□□	10	20	2.52MHz	16	0.025	5.0	3.7
PK1010-150M-□□	15	20	2.52MHz	12	0.029	4.2	3.4
PK1010-220K-□□	22	20	2.52MHz	9.5	0.040	3.4	2.9
PK1010-330K-□□	33	30	2.52MHz	7.0	0.062	2.8	2.3
PK1010-470K-□□	47	30	2.52MHz	5.8	0.075	2.3	2.1
PK1010-680K-□□	68	20	2.52MHz	4.7	0.13	1.9	1.6
PK1010-101K-□□	100	20	796kHz	3.8	0.16	1.6	1.4
PK1010-151K-□□	150	20	796kHz	3.1	0.26	1.3	1.1
PK1010-221K-□□	220	20	796kHz	2.5	0.33	1.1	1.0
PK1010-331K-□□	330	20	796kHz	2.0	0.52	0.88	0.82
PK1010-471K-□□	470	10	796kHz	1.6	0.66	0.75	0.72
PK1010-681K-□□	680	10	796kHz	1.3	1.1	0.61	0.56
PK1010-102K-□□	1000	20	252kHz	1.1	1.4	0.51	0.50
PK1010-152K-□□	1500	30	252kHz	0.82	2.4	0.43	0.38
PK1010-222K-□□	2200	20	252kHz	0.76	3.2	0.35	0.33
PK1010-332K-□□	3300	30	252kHz	0.64	4.9	0.28	0.26
PK1010-472K-□□	4700	30	252kHz	0.54	7.6	0.24	0.21
PK1010-682K-□□	6800	30	252kHz	0.45	9.8	0.20	0.18
PK1010-103K-□□	10000	30	79.6kHz	0.38	18	0.17	0.14
PK1010-153K-□□	15000	50	79.6kHz	0.29	24	0.13	0.12
PK1012-103K-□□	10000	100	79.6kHz	0.35	12	0.18	0.17
PK1012-123K-□□	12000	100	79.6kHz	0.31	13	0.16	0.16
PK1012-153K-□□	15000	100	79.6kHz	0.28	18	0.14	0.14
PK1012-183K-□□	18000	80	79.6kHz	0.26	25	0.13	0.12
PK1012-223K-□□	22000	80	79.6kHz	0.22	30	0.12	0.11
PK1012-273K-□□	27000	80	79.6kHz	0.20	35	0.11	0.10
PK1012-333K-□□	33000	60	79.6kHz	0.19	40	0.10	0.090
PK1012-393K-□□	39000	60	79.6kHz	0.17	50	0.090	0.080
PK1012-473K-□□	47000	60	79.6kHz	0.15	50	0.080	0.075
PK1012-563K-□□	56000	40	79.6kHz	0.13	65	0.075	0.070
PK1012-683K-□□	68000	40	79.6kHz	0.12	70	0.070	0.065
PK1012-823K-□□	82000	30	79.6kHz	0.10	100	0.060	0.055
PK1012-104K-□□	100000	30	79.6kHz	0.10	135	0.055	0.045

NOTE: Saturation Current(Isat) : the value of inductance decrease within 10%.

Temperature Rise Current(Irms) : Temperature rise of core surface within 20°C.



● **PK1018 series**

Part No.	L @1kHz (uH)	DCR (Ω) Max.	Saturation Current (A )Max.	Temperature Rise Current (A )Max.
PK1018-4R7K-□□	4.7	0.008	10.0	6.0
PK1018-6R8K-□□	6.8	0.011	8.0	5.5
PK1018-100K-□□	10	0.017	7.0	4.5
PK1018-150K-□□	15	0.022	5.5	4.0
PK1018-220K-□□	22	0.026	4.5	3.7
PK1018-330K-□□	33	0.032	3.8	3.3
PK1018-470K-□□	47	0.035	3.2	3.0
PK1018-680K-□□	68	0.047	2.6	2.6
PK1018-101K-□□	100	0.090	2.2	2.0
PK1018-151K-□□	150	0.129	1.8	1.6
PK1018-221K-□□	220	0.162	1.5	1.5
PK1018-331K-□□	330	0.212	1.2	1.2
PK1018-471K-□□	470	0.380	1.00	1.0
PK1018-681K-□□	680	0.548	0.84	0.84
PK1018-102K-□□	1000	0.844	0.66	0.66
PK1018-152K-□□	1500	1.18	0.55	0.55
PK1018-222K-□□	2200	2.00	0.46	0.44
PK1018-332K-□□	3300	2.53	0.38	0.38
PK1018-472K-□□	4700	3.19	0.32	0.32
PK1018-682K-□□	6800	5.69	0.26	0.25
PK1018-103K-□□	10000	7.30	0.22	0.22
PK1018-153K-□□	15000	10.5	0.18	0.18
PK1018-223K-□□	22000	21.8	0.14	0.13
PK1018-333K-□□	33000	25.7	0.12	0.12
PK1018-473K-□□	47000	36.1	0.10	0.10
PK1018-683K-□□	68000	57.3	0.08	0.08
PK1018-104K-□□	100000	89.7	0.06	0.06

NOTE: Saturation Current(Isat) : the value of inductance decrease within 10%.  
 Temperature Rise Current(Irms) : Temperature rise of core surface within 20°C.





● **PK1213 series**

Part No.	L @1kHz (uH)	DCR (Ω) Max.	Saturation Current (A)Max.	Temperature Rise Current (A)Max.
PK1213-100M-□□	10	0.023	8.0	5.1
PK1213-150K-□□	15	0.028	6.5	4.5
PK1213-220K-□□	22	0.035	5.5	4.2
PK1213-330K-□□	33	0.043	4.5	3.7
PK1213-470K-□□	47	0.052	3.6	3.4
PK1213-680K-□□	68	0.068	3.1	3.0
PK1213-101K-□□	100	0.097	2.6	2.5
PK1213-151K-□□	150	0.14	2.1	2.1
PK1213-221K-□□	220	0.20	1.7	1.7
PK1213-331K-□□	330	0.30	1.4	1.4
PK1213-471K-□□	470	0.43	1.10	1.1
PK1213-681K-□□	680	0.61	0.95	0.99
PK1213-102K-□□	1000	1.00	0.78	0.78
PK1213-152K-□□	1500	1.30	0.64	0.68
PK1213-222K-□□	2200	2.00	0.53	0.55
PK1213-332K-□□	3300	3.10	0.43	0.44
PK1213-472K-□□	4700	4.40	0.36	0.37
PK1213-682K-□□	6800	6.50	0.30	0.30
PK1213-103K-□□	10000	10.0	0.24	0.24

NOTE: Saturation Current(Isat) : the value of inductance decrease within 10%.  
 Temperature Rise Current(Irms) : Temperature rise of core surface within 20°C.

\* 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](http://www.3lcoil.com) for better known.