

PK SERIES

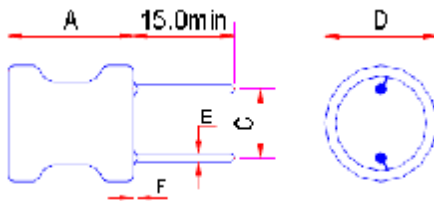
PEAKING COILS.

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°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°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°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 (μ H)	Q Min.	Q Test Freq.	DCR (Ω) 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℃.



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 (uH)	Q Min.	L / Q Test Freq.	SRF (MHz) Min.	DCR (Ω) 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℃.



● **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℃.

● **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℃.

* 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.