HIGH POWER **DC LINK CAPACITORS**

TYPE KNG4910, KNG4914

APPLICATIONS

- SWITCHING MODE POWER SUPPLIES (SMPS)
- WIND PLANTS
- SOLAR POWER PLANTS
- MOTOR DRIVES
- INDUCTION HEATERS
- FREQUENCY INVERTERS
- UNINTERRUPTIBLE POWER SUPPLIES (UPS)

FEATURES

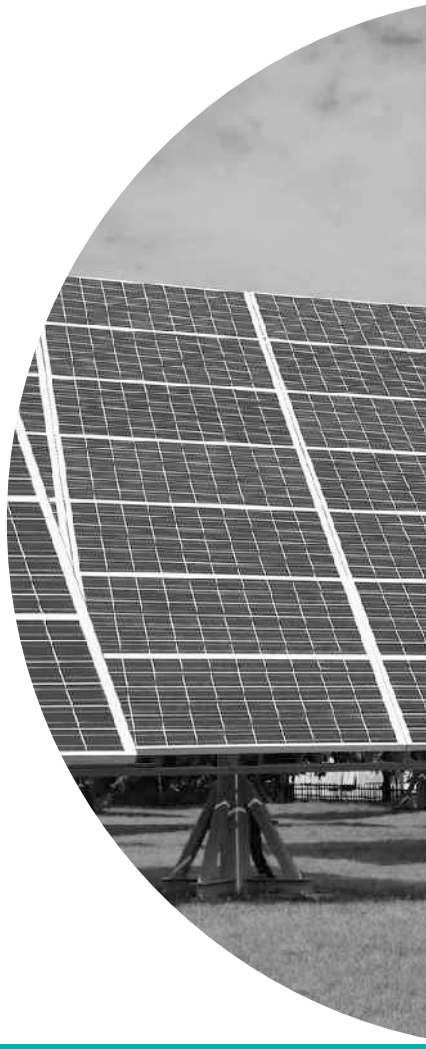
- FOR HARSH ENVIRONMENT
- SELF-HEALING PROPERTIES
- HIGH RIPPLE CURRENT
- HIGH RELIABILITY
- VERY LOW LOSSES

REFERENCE STANDARD

- IEC 61071
- AEC-Q200 (ON REQUEST)

SPECIFICATIONS

• RATED CAPACITANCE	0.22 µF UP TO 100 µF
• CAPACITANCE TOLERANCE	± 5 %, ± 10 %
• RATED VOLTAGE U_{NDC}	250 V DC, 300 V DC, 450 V DC, 630 V DC,750 V DC, 875 V DC
• TEST VOLTAGE (BETWEEN TERMINALS)	1.5xU_{NDC}, 10 s
• SELF-INDUCTANCE	< 1nH PER mm OF PITCH
• INSULATION RESISTANCE BETWEEN TERMINALS	RxC ≥ 30 000 s AFTER 1 min AT 100 V FOR U_{NDC} < 500 V DC AT 500 V FOR U_{NDC} ≥ 500 V DC
• OPERATING TEMPERATURE RANGE	-40 °C to +110 °C
• MAX. HOT SPOT TEMPERATURE	+110 °C
• CLIMATIC CATEGORY	40/110/56 ACCORDING TO IEC 60068-1
• LIFE EXPECTANCY	≥100 000 HOURS AT U_{NDC}, θ_{hs} = 70 °C
• FAILURE RATE	100 FIT



GENERAL CHARACTERISTICS

CAPACITANCE RANGE

U_{NDC} @ 85 °C = 250 V DC, U_{op}@ 70 °C = 300 V DC

C_N [1] (µF)	Dimensions (mm) [2] L	H	W	P	P1	tan(δ)@1kHz [3] ($x10^{-4}$)	ESR@10 kHz [4] (mΩ)	I_{max}@10 kHz [5] (A)	$(dU/dt)_{max}$ (V/µs)	Î (A)
1.5	32.0	16.0	7.5	27.5	–	10	27.0	3.8	32	48
2.2	32.0	17.0	9.0	27.5	–	10	19.0	4.8	32	70
3	32.0	19.0	10.0	27.5	–	10	14.5	5.8	32	96
3.3	32.0	20.0	11.0	27.5	–	10	13.8	6.2	32	106
4.7	32.0	22.0	13.0	27.5	–	10	10.0	7.8	32	150
5	32.0	22.0	13.0	27.5	–	10	9.5	8.0	32	160
5.6	32.0	23.5	14.0	27.5	–	10	8.6	8.7	32	179
6	32.0	24.5	15.0	27.5	–	10	8.2	9.2	32	192
6.8	32.0	24.5	15.0	27.5	–	10	7.4	9.7	32	218
8	32.0	26.5	17.0	27.5	–	10	6.5	10.9	32	256
8.2	32.0	28.0	18.0	27.5	–	10	6.3	11.4	32	262
10	32.0	28.0	18.0	27.5	–	10	5.3	12.0	32	320
12	32.0	32.0	18.0	27.5	–	10	4.5	12.0	32	384
15	32.0	35.0	20.0	27.5	-/10.2	10	3.7	16.6	32	480
18	32.0	35.5	24.0	27.5	-/10.2	10	3.2	18.7	32	576
20	32.0	40.0	25.0	27.5	-/10.2	10	3.0	20.1	32	640
10	42.0	27.0	16.0	37.5	–	15	9.2	10.1	22	220
12	42.0	27.0	16.0	37.5	–	15	8.0	10.8	22	264
15	42.0	31.0	18.0	37.5	10.2	15	6.5	12.9	22	330
18	42.0	38.0	21.0	37.5	10.2	15	5.6	15.0	22	396
20	42.0	38.0	21.0	37.5	10.2	15	5.1	15.8	22	440
22	42.0	38.0	21.0	37.5	10.2	15	4.7	16.4	22	484
25	42.0	43.0	28.0	37.5	10.2	15	4.2	17.7	22	550
30	42.0	43.0	28.0	37.5	10.2	15	3.7	18.9	22	660
35	42.0	43.0	28.0	37.5	10.2	15	3.3	20.0	22	770
40	42.0	45.0	30.0	37.5	10.2/20.3	15	3.0	21.8	22	880
50	42.0	50.0	36.0	37.5	10.2/20.3	15	2.6	24.0	22	1100
55	42.0	50.0	36.0	37.5	10.2/20.3	15	2.5	24.0	22	1210
55	57.5	45.0	30.0	52.5	20.3	20	3.0	24.1	15	825
60	57.5	45.0	30.0	52.5	20.3	20	2.8	24.9	15	900
70	57.5	50.0	35.0	52.5	20.3	20	2.5	28.2	15	1050
75	57.5	50.0	35.0	52.5	20.3	20	2.4	28.8	15	1125
80	57.5	50.0	35.0	52.5	20.3	20	2.3	29.4	15	1200
90	57.5	55.0	40.0	52.5	20.3	20	2.1	31.7	15	1350
100	57.5	55.0	40.0	52.5	20.3	20	1.9	32.0	15	1500

NOTES:

[1] CAPACITANCE VALUE MEASURED AT 1 kHz. INTERMEDIATE CAPACITANCE VALUES AVAILABLE ON REQUEST.

[2] NOMINAL DIMENSIONS.

[3] MAXIMUM tan(δ) VALUES MEASURED AT 1 kHz.

[4] TYPICAL EQUIVALENT SERIES RESISTANCE AT 10 kHz.

[5] MAXIMUM R.M.S. CURRENT AT 10 kHz, θ_{amb} = 70°C FOR $\Delta\theta_{case} \leq$ 20°C.

GENERAL CHARACTERISTICS

CAPACITANCE RANGE

U_{NDC} @ 85 °C = 300 V DC, U_{op} @ 70 °C = 450 V DC

C_N [1] (µF)	Dimensions (mm) [2] L	H	W	P	P1	tan(δ)@1kHz [3] ($x10^{-4}$)	ESR@10 kHz [4] (mΩ)	I_{max}@10 kHz [5] (A)	$(dU/dt)_{max}$ (V/µs)	Î (A)
1	32.0	16.0	7.5	27.5	–	10	36.0	3.3	36	36
2.2	32.0	19.0	10.0	27.5	–	10	16.5	5.5	36	79
3.3	32.0	21.0	12.0	27.5	–	10	12.0	6.9	36	119
4	32.0	23.5	14.0	27.5	–	10	11.5	7.9	36	144
4.7	32.0	24.5	15.0	27.5	–	10	9.0	8.8	36	169
5	32.0	24.5	15.0	27.5	–	10	8.7	9.0	36	180
5.6	32.0	26.5	17.0	27.5	–	10	7.9	9.9	36	202
6	32.0	26.5	17.0	27.5	–	10	7.5	10.1	36	216
6.8	32.0	28.0	18.0	27.5	–	10	6.8	11.0	36	245
8	32.0	32.0	18.0	27.5	–	10	6.0	12.0	36	288
8.2	32.0	32.0	18.0	27.5	–	10	5.9	12.0	36	295
10	32.0	33.0	20.0	27.5	-/10.2	10	5.0	14.0	36	360
12	32.0	35.5	24.0	27.5	-/10.2	10	4.2	16.3	36	432
15	32.0	40.0	25.0	27.5	-/10.2	10	3.4	19.2	36	540
8.2	42.0	27.0	16.0	37.5	–	15	10.4	9.5	25	205
9	42.0	31.0	18.0	37.5	10.2	15	9.3	10.8	25	225
10	42.0	31.0	18.0	37.5	10.2	15	8.5	11.3	25	250
11	42.0	31.0	18.0	37.5	10.2	15	7.7	11.8	25	275
12	42.0	31.0	18.0	37.5	10.2	15	7.0	12.4	25	300
15	42.0	38.0	21.0	37.5	10.2	15	5.7	14.9	25	375
18	42.0	38.0	21.0	37.5	10.2	15	4.8	16.2	25	450
20	42.0	43.0	28.0	37.5	10.2	15	4.3	17.5	25	500
22	42.0	43.0	28.0	37.5	10.2	15	3.9	18.4	25	550
25	42.0	43.0	28.0	37.5	10.2	15	3.5	19.4	25	625
30	42.0	45.0	30.0	37.5	10.2/20.3	15	2.9	22.2	25	750
35	42.0	50.0	36.0	37.5	10.2/20.3	15	2.6	24.0	25	875
40	42.0	50.0	36.0	37.5	10.2/20.3	15	2.3	24.0	25	1000
40	57.5	45.0	30.0	52.5	20.3	20	3.1	23.7	17	680
45	57.5	45.0	30.0	52.5	20.3	20	2.8	24.9	17	765
50	57.5	50.0	35.0	52.5	20.3	20	2.6	27.7	17	850
55	57.5	50.0	35.0	52.5	20.3	20	2.4	28.8	17	935
60	57.5	50.0	35.0	52.5	20.3	20	2.2	30.1	17	1020
65	57.5	55.0	40.0	52.5	20.3	20	2.1	31.7	17	1105
70	57.5	55.0	40.0	52.5	20.3	20	2.0	32.0	17	1190
75	57.5	55.0	40.0	52.5	20.3	20	1.9	32.0	17	1275

NOTES:

[1] CAPACITANCE VALUE MEASURED AT 1 kHz. INTERMEDIATE CAPACITANCE VALUES AVAILABLE ON REQUEST.

[2] NOMINAL DIMENSIONS.

[3] MAXIMUM tan(δ) VALUES MEASURED AT 1 kHz.

[4] TYPICAL EQUIVALENT SERIES RESISTANCE AT 10 kHz.

[5] MAXIMUM R.M.S. CURRENT AT 10 kHz, θ_{amb} = 70°C FOR $\Delta\theta_{case} \leq$ 20°C.

GENERAL CHARACTERISTICS

CAPACITANCE RANGE

U_{NDC} @ 85 °C = 450 V DC, U_{op}@ 70 °C = 630 V DC

C_N [1] (µF)	Dimensions (mm) [2] L	H	W	P	P1	tan(δ)@1kHz [3] ($x10^{-4}$)	ESR@10 kHz [4] (mΩ)	I_{max}@10 kHz [5] (A)	$(dU/dt)_{max}$ (V/µs)	Î (A)
0.82	32.0	16.0	7.5	27.5	–	10	38.0	3.2	45	37
1	32.0	17.0	9.0	27.5	–	10	32.0	3.7	45	45
1.5	32.0	19.0	10.0	27.5	–	10	21.0	4.8	45	68
2	32.0	21.0	12.0	27.5	–	10	16.5	5.9	45	90
3.3	32.0	24.5	15.0	27.5	–	10	10.5	8.2	45	149
4	32.0	26.5	17.0	27.5	–	10	9.0	9.2	45	180
4.7	32.0	28.0	18.0	27.5	–	10	7.5	10.5	45	212
5	32.0	28.0	18.0	27.5	–	10	7.3	10.6	45	225
5.6	32.0	32.0	18.0	27.5	–	10	6.4	11.8	45	252
6	32.0	33.0	20.0	27.5	–/10.2	10	6.2	12.6	45	270
6.8	32.0	33.0	20.0	27.5	–/10.2	10	5.6	13.2	45	306
8	32.0	35.5	24.0	27.5	–/10.2	10	4.9	15.1	45	360
8.2	32.0	35.5	24.0	27.5	–/10.2	10	4.8	15.3	45	369
10	32.0	40.0	25.0	27.5	–/10.2	10	4.1	17.5	45	450
5	42.0	27.0	16.0	37.5	–	15	13.0	8.5	32	160
5.6	42.0	27.0	16.0	37.5	–	15	11.5	9.0	32	179
6	42.0	31.0	18.0	37.5	10.2	15	10.8	10.0	32	192
6.8	42.0	31.0	18.0	37.5	10.2	15	9.5	10.7	32	218
7.5	42.0	31.0	18.0	37.5	10.2	15	8.7	11.1	32	240
8	42.0	38.0	21.0	37.5	10.2	15	8.1	12.5	32	256
8.2	42.0	38.0	21.0	37.5	10.2	15	7.9	12.7	32	262
10	42.0	38.0	21.0	37.5	10.2	15	6.6	13.8	32	320
12	42.0	38.0	21.0	37.5	10.2	15	5.6	15.0	32	384
14	42.0	43.0	28.0	37.5	10.2	15	4.9	16.4	32	448
15	42.0	43.0	28.0	37.5	10.2	15	4.6	16.9	32	480
18	42.0	43.0	28.0	37.5	10.2	15	3.9	18.4	32	576
20	42.0	45.0	30.0	37.5	10.2/20.3	15	3.5	20.2	32	640
22	42.0	50.0	36.0	37.5	10.2/20.3	15	3.2	22.6	32	704
25	42.0	50.0	36.0	37.5	10.2/20.3	15	2.9	23.8	32	800
25	57.5	45.0	30.0	52.5	20.3	20	3.7	21.7	22	550
30	57.5	45.0	30.0	52.5	20.3	20	3.2	23.3	22	660
35	57.5	50.0	35.0	52.5	20.3	20	2.8	26.7	22	770
40	57.5	50.0	35.0	52.5	20.3	20	2.5	28.2	22	880
45	57.5	55.0	40.0	52.5	20.3	20	2.3	30.3	22	990
50	57.5	55.0	40.0	52.5	20.3	20	2.1	31.7	22	1100

NOTES:

[1] CAPACITANCE VALUE MEASURED AT 1 kHz. INTERMEDIATE CAPACITANCE VALUES AVAILABLE ON REQUEST.

[2] NOMINAL DIMENSIONS.

[3] MAXIMUM tan(δ) VALUES MEASURED AT 1 kHz.

[4] TYPICAL EQUIVALENT SERIES RESISTANCE AT 10 kHz.

[5] MAXIMUM R.M.S. CURRENT AT 10 kHz, θ_{amb} = 70°C FOR $\Delta\theta_{case} \leq$ 20°C.

GENERAL CHARACTERISTICS

CAPACITANCE RANGE

U_{NDC} @ 85 °C = 630 V DC, U_{op} @ 70 °C = 800 V DC

C_N [1] (µF)	Dimensions (mm) [2] L	H	W	P	P1	tan(δ)@1kHz [3] ($x10^{-4}$)	ESR@10 kHz [4] (mΩ)	I_{max}@10 kHz [5] (A)	$(dU/dt)_{max}$ (V/µs)	Î (A)
0.56	32.0	16.0	7.5	27.5	–	10	48.0	2.9	54	30
0.68	32.0	17.0	9.0	27.5	–	10	40.0	3.3	54	37
0.82	32.0	17.0	9.0	27.5	–	10	33.0	3.6	54	44
1	32.0	19.0	10.0	27.5	–	10	26.8	4.3	54	54
1.2	32.0	21.0	12.0	27.5	–	10	23.0	5.0	54	65
2	32.0	24.5	15.0	27.5	–	10	14.0	7.1	54	108
2.2	32.0	24.5	15.0	27.5	–	10	13.0	7.3	54	119
3	32.0	28.0	18.0	27.5	–	10	9.8	9.2	54	162
3.3	32.0	28.0	18.0	27.5	–	10	8.8	9.7	54	178
4	32.0	32.0	18.0	27.5	–	10	7.2	11.2	54	216
4.7	32.0	33.0	20.0	27.5	-/10.2	10	6.6	12.2	54	254
5	32.0	35.0	20.0	27.5	-/10.2	10	6.3	12.7	54	270
5.6	32.0	35.5	24.0	27.5	-/10.2	10	5.8	13.9	54	302
6	32.0	35.5	24.0	27.5	-/10.2	10	5.5	14.3	54	324
6.8	32.0	40.0	25.0	27.5	-/10.2	10	4.9	16.0	54	258
7	32.0	40.0	25.0	27.5	-/10.2	10	4.8	16.1	54	266
4	42.0	27.0	16.0	37.5	–	15	12.0	8.8	38	152
4.7	42.0	31.0	18.0	37.5	10.2	15	10.2	10.3	38	179
5	42.0	31.0	18.0	37.5	10.2	15	9.5	10.7	38	190
5.6	42.0	32.0	19.0	37.5	10.2	15	8.7	11.4	38	213
6	42.0	32.0	19.0	37.5	10.2	15	8.2	11.7	38	228
6.8	42.0	38.0	21.0	37.5	10.2	15	7.3	13.2	38	258
8	42.0	38.0	21.0	37.5	10.2	15	6.5	14.0	38	304
8.2	42.0	38.0	21.0	37.5	10.2	15	6.3	14.2	38	312
10	42.0	43.0	28.0	37.5	10.2	15	5.2	15.9	38	380
12	42.0	43.0	28.0	37.5	10.2	15	4.3	17.5	38	456
15	42.0	50.0	36.0	37.5	10.2/20.3	15	3.6	21.3	38	570
18	42.0	50.0	36.0	37.5	10.2/20.3	15	3.1	23.0	38	684
20	42.0	50.0	36.0	37.5	10.2/20.3	15	2.8	24.0	38	760
18	57.5	45.0	30.0	52.5	20.3	20	4.5	19.7	26	468
20	57.5	45.0	30.0	52.5	20.3	20	4.1	20.6	26	520
22	57.5	50.0	35.0	52.5	20.3	20	3.8	22.9	26	572
25	57.5	50.0	35.0	52.5	20.3	20	3.4	24.2	26	650
30	57.5	55.0	40.0	52.5	20.3	20	2.9	26.9	26	780
35	57.5	55.0	40.0	52.5	20.3	20	2.5	29.0	26	910

NOTES:

[1] CAPACITANCE VALUE MEASURED AT 1 kHz. INTERMEDIATE CAPACITANCE VALUES AVAILABLE ON REQUEST.

[2] NOMINAL DIMENSIONS.

[3] MAXIMUM tan(δ) VALUES MEASURED AT 1 kHz.

[4] TYPICAL EQUIVALENT SERIES RESISTANCE AT 10 kHz.

[5] MAXIMUM R.M.S. CURRENT AT 10 kHz, θ_{amb} = 70°C FOR $\Delta\theta_{case} \leq$ 20°C.

GENERAL CHARACTERISTICS

CAPACITANCE RANGE

U_{NDC} @ 85 °C = 750 V DC, U_{op}@ 70 °C = 900 V DC

C_N [1] (µF)	Dimensions (mm) [2] L	H	W	P	P1	tan(δ)@1kHz [3] ($x10^{-4}$)	ESR@10 kHz [4] (mΩ)	I_{max}@10 kHz [5] (A)	$(dU/dt)_{max}$ (V/µs)	Î (A)
0.39	32.0	16.0	7.5	27.5	–	10	60.0	2.6	63	25
0.47	32.0	17.0	9.0	27.5	–	10	50.0	3.0	63	30
0.56	32.0	17.0	9.0	27.5	–	10	41.5	3.2	63	35
0.68	32.0	19.0	10.0	27.5	–	10	35.0	3.7	63	43
0.82	32.0	20.0	11.0	27.5	–	10	30.0	4.2	63	52
1	32.0	21.0	12.0	27.5	–	10	25.5	4.7	63	63
1.5	32.0	24.5	15.0	27.5	–	10	17.0	6.4	63	95
2	32.0	26.5	17.0	27.5	–	10	13.0	7.7	63	126
2.2	32.0	26.5	17.0	27.5	–	10	11.6	8.1	63	139
3	32.0	33.0	20.0	27.5	-/10.2	10	8.8	10.6	63	189
3.3	32.0	33.0	20.0	27.5	-/10.2	10	8.2	10.9	63	208
4	32.0	35.5	24.0	27.5	-/10.2	10	6.9	12.7	63	252
4.7	32.0	40.0	25.0	27.5	-/10.2	10	6.0	14.4	63	296
5	32.0	40.0	25.0	27.5	-/10.2	10	5.6	14.9	63	315
2.2	42.0	27.0	16.0	37.5	–	15	17.0	7.4	45	140
3	42.0	27.0	16.0	37.5	–	15	13.0	8.5	45	135
3.3	42.0	31.0	18.0	37.5	10.2	15	12.3	9.4	45	149
4	42.0	32.0	19.0	37.5	10.2	15	10.5	10.4	45	180
4.7	42.0	38.0	21.0	37.5	10.2	15	9.0	11.9	45	212
5	42.0	38.0	21.0	37.5	10.2	15	8.5	12.2	45	225
5.6	42.0	38.0	21.0	37.5	10.2	15	7.7	12.8	45	252
6	42.0	38.0	21.0	37.5	10.2	15	7.3	13.2	45	270
6.8	42.0	43.0	28.0	37.5	10.2	15	6.6	14.1	45	306
8	42.0	43.0	28.0	37.5	10.2	15	5.8	15.1	45	360
8.2	42.0	43.0	28.0	37.5	10.2	15	5.7	15.2	45	369
9	42.0	45.0	30.0	37.5	10.2	15	5.3	16.4	45	405
10	42.0	45.0	30.0	37.5	10.2/20.3	15	4.8	17.3	45	450
12	42.0	50.0	36.0	37.5	10.2/20.3	15	4.1	20.0	45	540
14	42.0	50.0	36.0	37.5	10.2/20.3	15	3.7	21.0	45	630
14	57.5	45.0	30.0	52.5	20.3	20	4.8	19.0	30	420
15	57.5	45.0	30.0	52.5	20.3	20	4.6	19.4	30	450
18	57.5	50.0	35.0	52.5	20.3	20	3.8	22.9	30	540
20	57.5	50.0	35.0	52.5	20.3	20	3.5	23.9	30	600
22	57.5	55.0	40.0	52.5	20.3	20	3.2	25.6	30	660
25	57.5	55.0	40.0	52.5	20.3	20	3.0	26.5	30	750

NOTES:

[1] CAPACITANCE VALUE MEASURED AT 1 kHz. INTERMEDIATE CAPACITANCE VALUES AVAILABLE ON REQUEST.

[2] NOMINAL DIMENSIONS.

[3] MAXIMUM tan(δ) VALUES MEASURED AT 1 kHz

[4] TYPICAL EQUIVALENT SERIES RESISTANCE AT 10 kHz.

[5] MAXIMUM R.M.S. CURRENT AT 10 kHz, θ_{amb} = 70°C FOR $\Delta\theta_{case} \leq$ 20°C.

GENERAL CHARACTERISTICS

CAPACITANCE RANGE

U_{NDC} @ 85 °C = 875 V DC, U_{op} @ 70 °C = 1050 V DC

C_N [1] (µF)	Dimensions (mm) [2] L	H	W	P	P1	tan(δ)@1kHz [3] ($x10^{-4}$)	ESR@10 kHz [4] (mΩ)	I_{max}@10 kHz [5] (A)	$(dU/dt)_{max}$ (V/µs)	Î (A)
0.22	32.0	16.0	7.5	27.5	–	10	80.0	2.2	72	16
0.33	32.0	17.0	9.0	27.5	–	10	55.0	2.8	72	24
0.47	32.0	19.0	10.0	27.5	–	10	42.0	3.4	72	34
0.56	32.0	19.0	10.0	27.5	–	10	37.0	3.6	72	40
0.68	32.0	20.0	11.0	27.5	–	10	30.0	4.2	72	49
0.82	32.0	21.0	12.0	27.5	–	10	25.0	4.8	72	59
1	32.0	22.0	13.0	27.5	–	10	22.0	5.2	72	72
1.5	32.0	26.5	17.0	27.5	–	10	15.0	7.2	72	108
2	32.0	28.0	18.0	27.5	–	10	11.5	8.5	72	144
2.2	32.0	32.0	18.0	27.5	–	10	10.5	9.2	72	158
3	32.0	35.5	24.0	27.5	-/10.2	10	7.8	12.0	72	216
3.3	32.0	35.5	24.0	27.5	-/10.2	10	7.3	12.4	72	238
4	32.0	40.0	25.0	27.5	-/10.2	10	6.3	14.1	72	288
2	42.0	27.0	16.0	37.5	–	15	16.0	7.6	51	102
2.2	42.0	27.0	16.0	37.5	–	15	15.0	7.9	51	112
3	42.0	31.0	18.0	37.5	10.2	15	11.5	9.7	51	153
3.3	42.0	38.0	21.0	37.5	10.2	15	10.5	11.0	51	168
4	42.0	38.0	21.0	37.5	10.2	15	9.0	11.9	51	204
4.7	42.0	38.0	21.0	37.5	10.2	15	7.6	12.9	51	240
5	42.0	43.0	28.0	37.5	10.2	15	7.0	13.7	51	255
5.6	42.0	43.0	28.0	37.5	10.2	15	6.3	14.5	51	286
6	42.0	43.0	28.0	37.5	10.2	15	6.1	14.2	51	306
6.8	42.0	43.0	28.0	37.5	10.2	15	5.8	15.1	51	347
7.5	42.0	45.0	30.0	37.5	10.2/20.3	15	5.4	16.3	51	383
8	42.0	45.0	30.0	37.5	10.2/20.3	15	5.1	16.7	51	408
8.2	42.0	45.0	30.0	37.5	10.2/20.3	15	5.0	16.9	51	418
9	42.0	50.0	36.0	37.5	10.2/20.3	15	4.6	18.9	51	459
10	42.0	50.0	36.0	37.5	10.2/20.3	15	4.4	19.3	51	510
10	57.5	45.0	30.0	52.5	20.3	20	5.2	18.3	35	350
12	57.5	45.0	30.0	52.5	20.3	20	4.6	19.4	35	420
14	57.5	50.0	35.0	52.5	20.3	20	4.0	22.3	35	490
15	57.5	50.0	35.0	52.5	20.3	20	3.8	22.9	35	525
16	57.5	50.0	35.0	52.5	20.3	20	3.7	23.2	35	560
18	57.5	55.0	40.0	52.5	20.3	20	3.3	25.3	35	630
20	57.5	55.0	40.0	52.5	20.3	20	3.0	26.5	35	700

NOTES:

[1] CAPACITANCE VALUE MEASURED AT 1 kHz. INTERMEDIATE CAPACITANCE VALUES AVAILABLE ON REQUEST.

[2] NOMINAL DIMENSIONS.

[3] MAXIMUM tan(δ) VALUES MEASRED AT 1kHz.

[4] TYPICAL EQUIVALENT SERIES RESISTANCE AT 10 kHz.

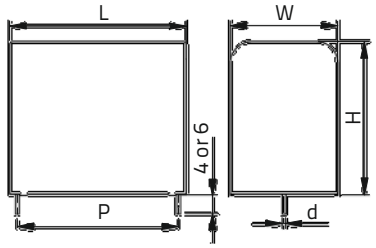
[5] MAXIMUM R.M.S. CURRENT AT 10 kHz, θ_{amb} = 70°C FOR $\Delta\theta_{case} \leq$ 20°C.

HIGH POWER **DC LINK CAPACITORS**

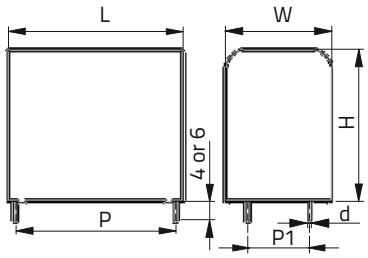
TYPE KNG4910, KNG4914

DIMENSIONS

KNG4910 (2 pins)

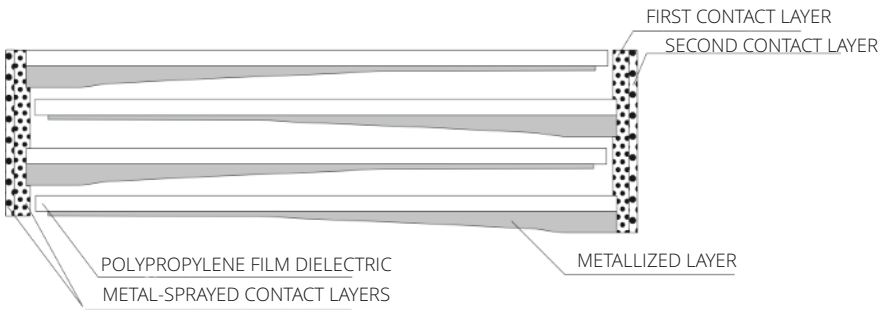


KNG4914 (4 pins)



TERMINAL DIMENSIONS						MAX. BOX DIMENSIONS		
P (mm)	TOLERANCE (mm)	P1 (mm)	TOLERANCE (mm)	d (mm)	TOLERANCE (mm)	L_{max} (mm)	H_{max} (mm)	W_{max} (mm)
27.5	±0.5	–	–	0.8	±0.05	L + 0.5	H + 0.2	W + 0.5
27.5	±0.5	10.2	±0.5	1 OR 1.2	±0.05	L + 0.5	H + 0.2	W + 0.5
37.5	±0.5	–	±0.5	1 OR 1.2	±0.05	L + 0.5	H + 0.5	W + 0.5
37.5	±0.5	10.2	±0.5	1 OR 1.2	±0.05	L + 0.5	H + 0.5	W + 0.5
37.5	±0.5	20.3	±0.5	1 OR 1.2	±0.05	L + 0.5	H + 0.5	W + 0.5
52.5	±0.5	20.3	±0.5	1.2	±0.05	L + 1.0	H + 1.0	W + 1.0

CONSTRUCTION

- **DIELECTRIC:** POLYPROPYLENE FILM
- **CAPACITOR ELECTRODES:** VACUUM-DEPOSITED METAL LAYERS
- **CASING:** PLASTIC CASE WITH FLAME-RETARDANT EPOXY RESIN SEALING (UL 94 V-0)
- **TERMINALS:** PARALLEL TINNED COPPER WIRE (2 OR 4 PINS)

INTERNAL CONSTRUCTION