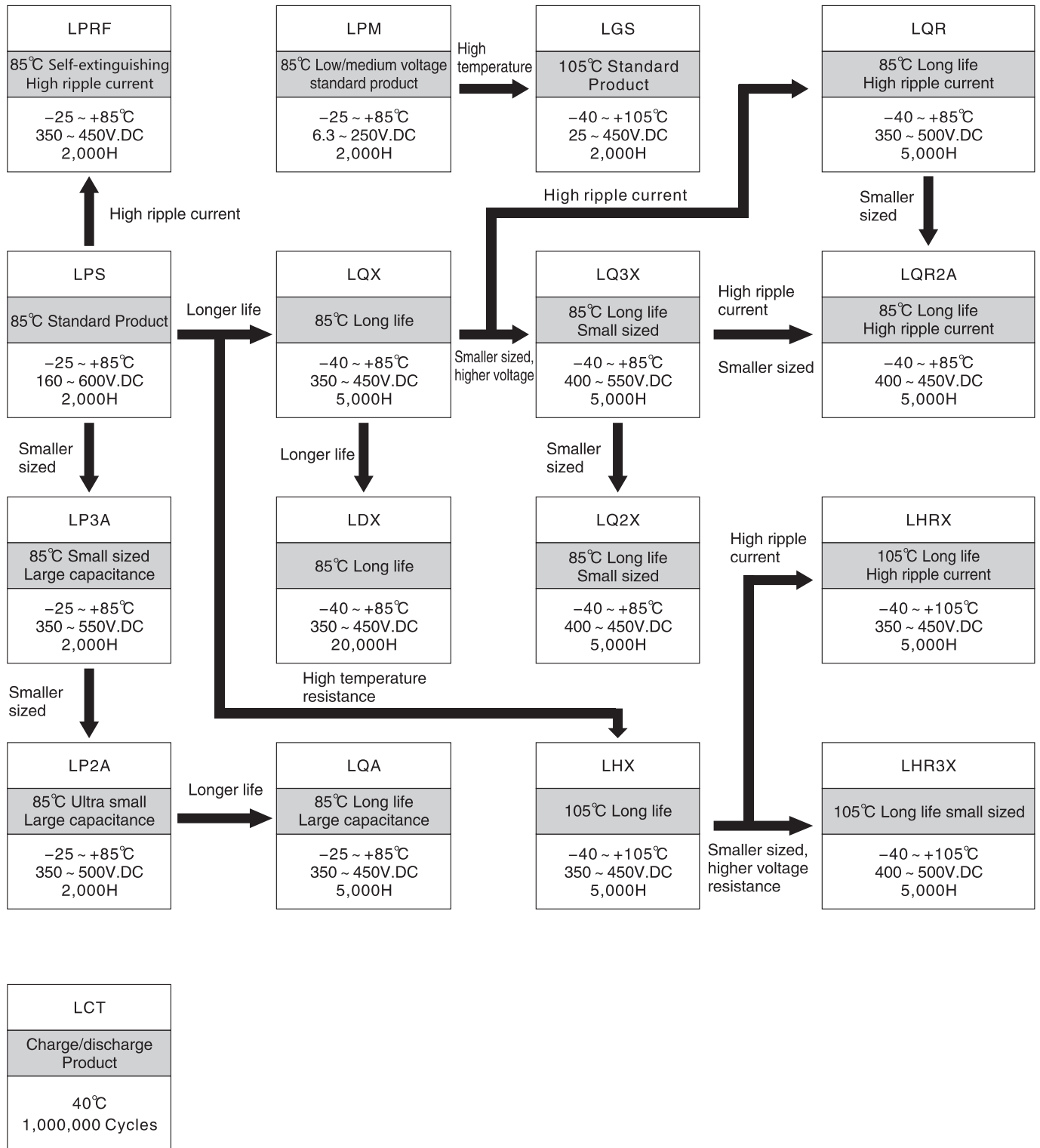


LIST OF PRODUCTS

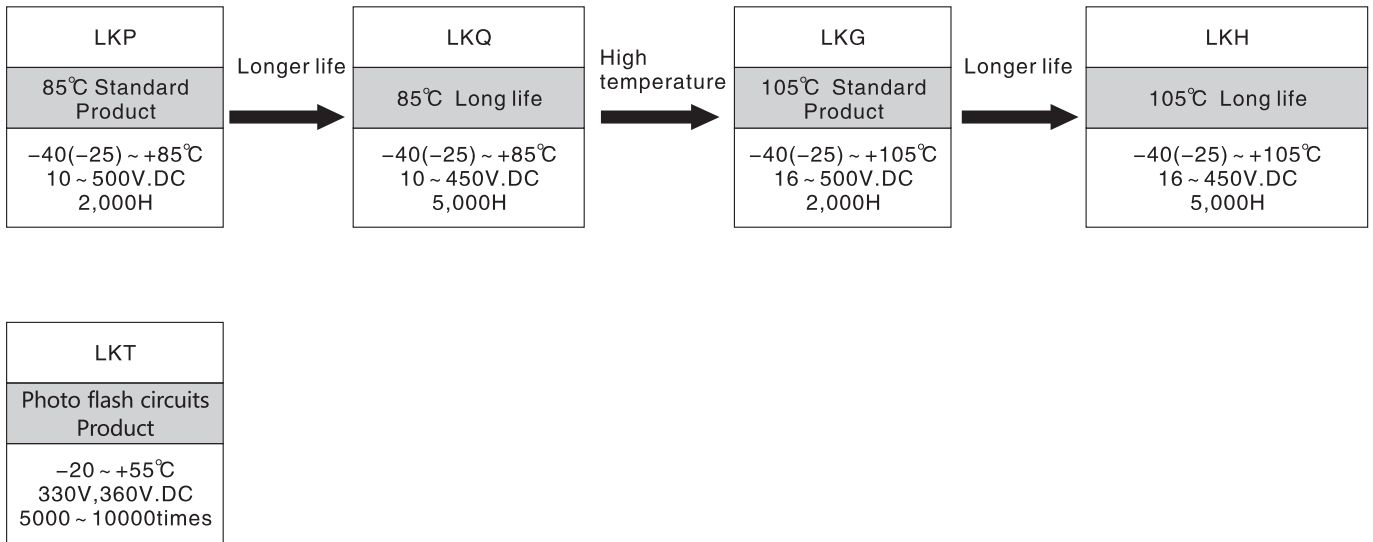
Type	Series	Features	Operating Temperature Range	Standard product	Small-sized product	High-reliability product	Operating voltage (V.DC/ V.AC)	Capacitance Range (μ F)	Page
Snap In(Lug)	LKP	85°C Standard Product (85°C 2,000H)	-40(-25) ~ +85°C	○			10 ~ 500 V.DC	68 ~ 82,000	102
	LKQ	Long life,Standard Product (85°C 5,000H)	-40(-25) ~ +85°C			○	10 ~ 450 V.DC	68 ~ 22,000	108
	LKG	105°C Standard Product (105°C 2,000H)	-40(-25) ~ +105°C	○			16 ~ 500 V.DC	39 ~ 47,000	114
	LKH	Long life, Standard Product (105°C 5,000H)	-40(-25) ~ +105°C			○	16 ~ 450 V.DC	68 ~ 56,000	120
	LKT	Camera Photo flash circuits Product(55°C 5000 ~ 10000times)	-20 ~ +55°C	○		○	330, 360 V.DC	240 ~ 2900	125
Screw Terminal	LPM	Low/medium voltage standard product (85°C 2,000H)	-25 ~ +85°C	○			6.3 ~ 250 V.DC	1000 ~ 5,000,000	127
	LP3A	Small sized, large capacitance product (85°C 2,000H)	-25 ~ +85°C		○		350 ~ 550 V.DC	1000 ~ 22,000	129
	LPS	Standard Product (85°C 2,000H)	-25 ~ +85°C	○			160 ~ 600 V.DC	100 ~ 39,000	131
	LPRF	High ripple, Self-extinguishing (85°C 2,000H)	-25 ~ +85°C			○	350 ~ 450 V.DC	1500 ~ 15,000	134
	LP2A	Ultra small,large-capacitance product (85°C 2,000H)	-25 ~ +85°C		○		350 ~ 500 V.DC	5600 ~ 39,000	136
	LQX	Long Life,Standard Product (85°C 5,000H)	-40 ~ +85°C	○		○	350 ~ 450 V.DC	1000 ~ 18,000	138
	LQA	Long Life,large capacitance product (85°C 5,000H)	-25 ~ +85°C		○	○	350 ~ 450 V.DC	9000 ~ 38,000	140
	LQR2A	Long Life,high ripple current product (85°C 5,000H)	-40 ~ +85°C		○	○	400 ~ 450 V.DC	2700 ~ 22,000	141
	LQR	Long Life,high ripple current product (85°C 5,000H)	-40 ~ +85°C			○	350 ~ 500 V.DC	1500 ~ 12,000	142
	LQ2X	Long Life,small sized product (85°C 5,000H)	-40 ~ +85°C		○	○	400 ~ 450 V.DC	1800 ~ 8,200	144
	LQ3X	Long Life,small sized product (85°C 5,000H)	-40 ~ +85°C		○	○	400 ~ 550 V.DC	1000 ~ 22,000	145
	LDX	Long Life product (85°C 20,000H)	-40 ~ +85°C			○	350 ~ 450 V.DC	1000 ~ 15,000	147
	LGS	105°C Standard product (105°C 2,000H)	-40 ~ +105°C	○		○	25 ~ 450 V.DC	220 ~ 330,000	149
	LHX	Long Life standard product (105°C 5,000H)	-40 ~ +105°C	○		○	350 ~ 450 V.DC	1000 ~ 15,000	152
	LHRX	Long Life,high ripple current product (105°C 5,000H)	-40 ~ +105°C			○	350 ~ 450 V.DC	1800 ~ 10,000	154
	LHR3X	Long Life,small sized product (105°C 5,000H)	-40 ~ +105°C		○	○	400 ~ 500 V.DC	1000 ~ 10,000	156
LCT	For charge/discharge application (40°C 1,000,000Cycles)	-25 ~ +70°C	○		○	200 ~ 475 V.DC	100 ~ 36,000	158	
Film Capacitor	DCL	DC-link capacitor (70°C 100,000H)	-40 ~ +85°C	○			500 ~ 1500 V.DC	75 ~ 6,000	159
	FFC	High-frequency filter capacitor (70°C 100,000H)	-40 ~ +70°C	○			250 ~ 2000 V.AC	20 ~ 500	166
	EST	Storage capacitor (40°C 20,000,000 times)	-25 ~ +40°C	○			500 ~ 2500 V.DC	200 ~ 6,000	169

SERIES CHART(SCREW TERMINAL)

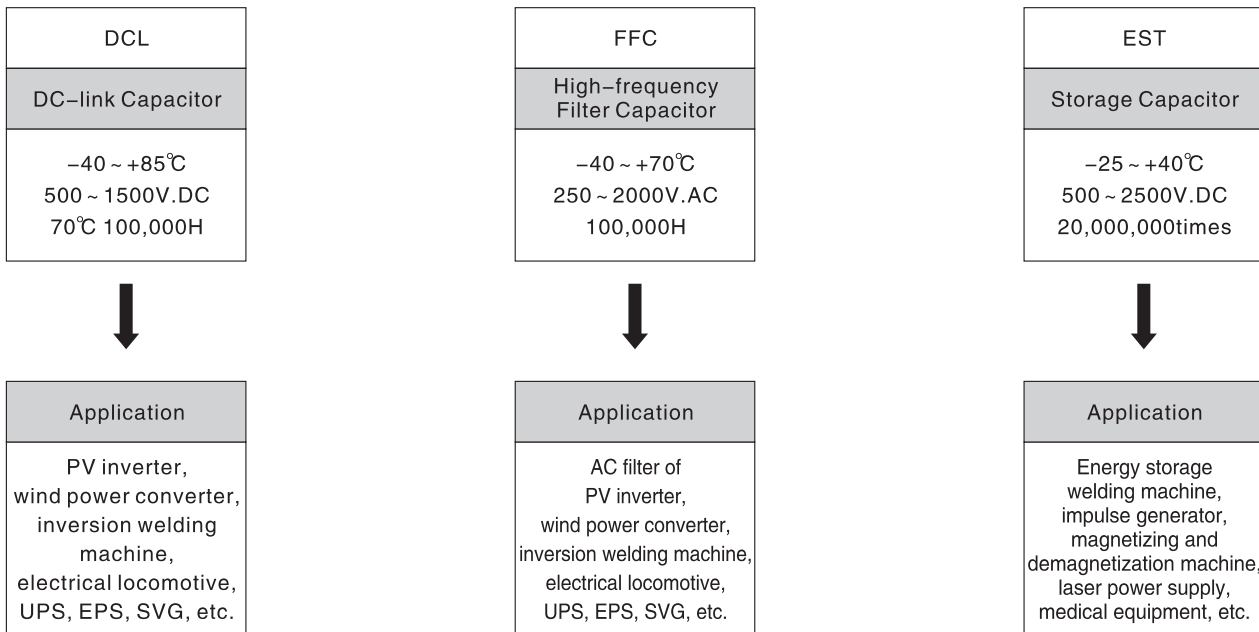


ENGLISH

SERIES CHART(SNAP IN/LUG)



SERIES CHART (FILM CAPACITOR)



ENGLISH

LKP SERIES (85°C 2000H)

- Compliant to the RoHS directive.
- Standard product, Load life of 2000 hours at 85°C.
- Used in switching power, frequency converter circuit, filtering circuit, air conditioning, for welder and PCB mounting etc.



■ Specification

Item	Performance Characteristics							
	-40°C ~ +85°C	-25°C ~ +85°C						
Operating range	-40°C ~ +85°C	-25°C ~ +85°C						
Rated voltage range	10V ~ 250V	315V ~ 500V						
Capacitance tolerance	±20% (20°C, 120Hz)							
Leakage current	1 ≤ 0.01CV (µA) or 1.5mA (Whichever is smaller) (20°C, after 5 minutes) C=Nominal capacitance (µF), V=Rated voltage (V)							
Dissipation factor (20°C, 120Hz)	U _R (V)	10 ~ 16	25 ~ 35	50	63	80 ~ 100	160 ~ 200	250 ~ 500
	tan δ	0.45	0.35	0.30	0.25	0.20	0.15	0.15
Stability at Low Temperature (Impedance ratio at 120Hz)	U _R (V)	10	16 ~ 100	160 ~ 200	250 ~ 400	450 ~ 500		
	Z (-25°C) / Z (+20°C)	5	4	3	4			
	Z (-40°C) / Z (+20°C)	18	15	10	8	—		
Load Life	After applying rated voltage with specified ripple current for 2000 hours at 85°C (the peak voltage shall not exceed the rated voltage), and then restored for 24 hours, capacitor shall meet the following requirement:							
	Capacitance change	Within ±15% of the initial value.						
	Dissipation factor	Not more than 150% of the initial specified value.						
	Leakage current	Not more than the initial specified value.						
Shelf Life	After storing for 1000 hours at 85°C, U _R to be applied for 30 minutes and then restored for 24 hours, capacitor shall meet the following requirement:							
	Capacitance change	Within ±15% of the initial value.						
	Dissipation factor	Not more than 150% of the initial specified value.						
	Leakage current	Not more than the initial specified value.						
Standard	JIS C 5101-4							

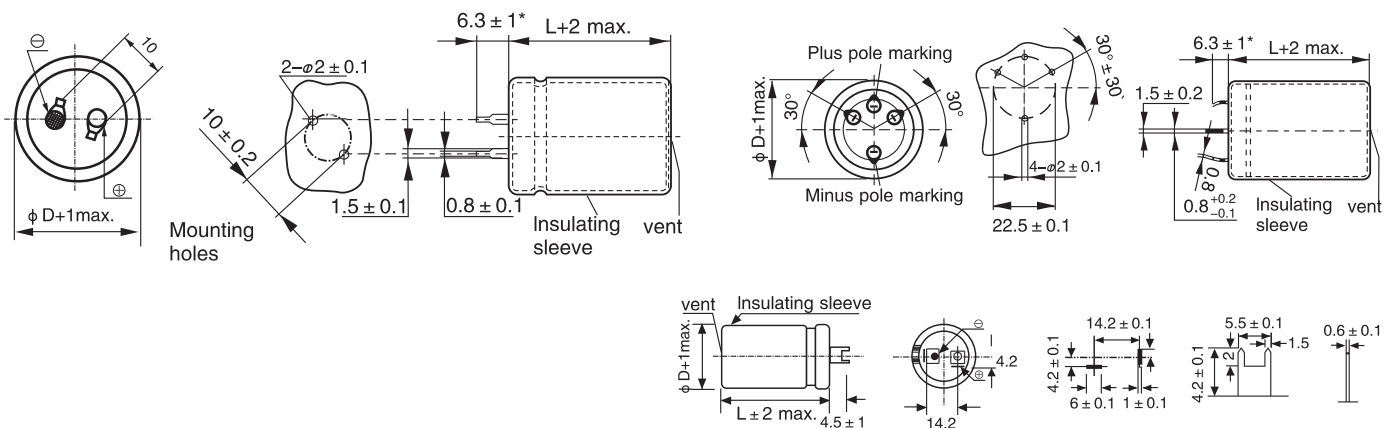
■ Ripple current correction coefficient

U _R (V) \ T(°C)	40	55	70	85
< 160	2.1	1.8	1.5	1.0
≥ 160	1.7	1.5	1.3	1.0

U _R (V) \ F(Hz)	50(60)	120	1K	10K	100K
≤ 50	0.95	1.00	1.10	1.15	1.15
63-100	0.95	1.00	1.16	1.30	1.33
≥ 160	0.95	1.00	1.20	1.50	1.55

■ Drawing

Unit : mm



*: Shorter terminal is : $4.0 \pm 0.5 \text{ mm}$

LKP SERIES

■ LKP Products Table

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 85°C, 120Hz (Arms)	Max ESR 20°C, 120Hz (mΩ)	ESR(typ.) 20°C, 120Hz (mΩ)	Part number
10 1A (13)	12000	22×30	0.45	3.30	50	40	LKP1A123MP030K
	15000	25×25	0.45	3.31	40	30	LKP1A153MQ025K
	18000	25×30	0.45	3.96	32	26	LKP1A183MQ030K
	22000	25×35	0.45	4.41	25	20	LKP1A223MQ035K
	33000	30×30	0.45	4.81	18	13	LKP1A333MR030K
	39000	30×35	0.45	5.31	15	11	LKP1A393MR035K
	47000	30×40	0.45	6.1	12	9.1	LKP1A473MR040K
	68000	35×40	0.45	7.7	8	6.3	LKP1A683MS040K
82000	35×45	0.45	8.72	7	5.2	LKP1A823MS045K	
16 1C (20)	8200	22×25	0.45	2.22	66	51	LKP1C822MP025K
	10000	22×30	0.45	2.66	55	42	LKP1C103MP030K
		25×25	0.45	2.66	55	42	LKP1C103MQ025K
	12000	22×35	0.45	2.99	48	35	LKP1C123MP035K
	15000	22×40	0.45	3.33	38	30	LKP1C153MP040K
		25×30	0.45	3.33	38	30	LKP1C153MQ030K
		30×25	0.45	3.34	38	30	LKP1C153MR025K
	18000	22×45	0.45	3.88	32	23	LKP1C183MP045K
		25×35	0.45	3.87	32	23	LKP1C183MQ035K
	22000	22×50	0.45	4.42	28	20	LKP1C223MP050K
		25×40	0.45	4.42	28	20	LKP1C223MQ040K
		30×30	0.45	4.42	28	20	LKP1C223MR030K
35×25		0.45	4.44	28	20	LKP1C223MS025K	
25 1E (32)	5600	22×25	0.35	2.20	85	66	LKP1E562MP025K
	6800	22×30	0.35	2.33	70	55	LKP1E682MP030K
		25×25	0.35	2.33	70	55	LKP1E682MQ025K
	8200	22×35	0.35	2.66	58	48	LKP1E822MP035K
	10000	22×40	0.35	2.99	50	40	LKP1E103MP040K
		25×30	0.35	2.88	50	40	LKP1E103MQ030K
		30×25	0.35	2.88	50	40	LKP1E103MR025K
	12000	22×45	0.35	3.33	40	31	LKP1E123MP045K
		25×35	0.35	3.32	40	31	LKP1E123MQ035K
		30×30	0.35	3.40	40	31	LKP1E123MR030K
	15000	25×40	0.35	3.77	35	25	LKP1E153MQ040K
		30×30	0.35	3.80	35	25	LKP1E153MR030K
		35×25	0.35	3.90	35	25	LKP1E153MS025K
	18000	25×50	0.35	4.35	30	21	LKP1E183MQ050K
		30×35	0.35	4.32	30	21	LKP1E183MR035K
		35×30	0.35	4.30	30	21	LKP1E183MS030K
	22000	30×40	0.35	4.90	25	18	LKP1E223MR040K
		35×35	0.35	5.00	25	18	LKP1E223MS035K
35 1V (44)	3300	22×25	0.35	1.88	100	82	LKP1V322MP025K
	3900	22×30	0.35	2.11	90	70	LKP1V392MP030K
	4700	25×25	0.35	2.20	75	60	LKP1V472MQ025K
	5600	22×35	0.35	2.33	75	60	LKP1V562MR035K
		25×30	0.35	2.33	75	60	LKP1V562MQ030K
	6800	22×40	0.35	2.99	60	50	LKP1V682MR040K
		25×35	0.35	2.70	60	50	LKP1V682MQ035K
		30×25	0.35	2.77	60	50	LKP1V682MR025K
	8200	22×50	0.35	2.85	58	47	LKP1V822MP050K
		25×40	0.35	2.85	58	47	LKP1V822MQ040K
		30×30	0.35	2.85	58	47	LKP1V822MR030K
		35×25	0.35	2.90	58	47	LKP1V822MS025K
	10000	25×45	0.35	3.20	50	40	LKP1V103MQ045K
		30×35	0.35	3.30	50	40	LKP1V103MR035K
	12000	25×50	0.35	3.58	40	31	LKP1V123MQ050K
		30×40	0.35	3.58	40	31	LKP1V123MR040K
	15000	35×30	0.35	3.66	40	31	LKP1V123MS030K
		30×45	0.35	4.20	35	25	LKP1V153MR045K
	18000	35×35	0.35	4.20	35	25	LKP1V153MS035K
		30×50	0.35	4.70	30	22	LKP1V183MR050K
22000	35×40	0.35	4.70	30	22	LKP1V183MS040K	
	35×45	0.35	5.40	25	18	LKP1V223MS045K	



SNAP IN TYPE ALUMINUM ELECTROLYTIC ACPACITORS

LKP SERIES

Rated Voltage Code (V.DC)	Capacitance (μ F)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 85°C,120Hz (Arms)	Max ESR 20°C,120Hz (mΩ)	ESR(typ.) 20°C,120Hz (mΩ)	Part number
50 1H (63)	2200	22×25	0.30	1.80	120	100	LKP1H222MP025K
	2700	22×30	0.30	1.95	105	80	LKP1H272MP030K
		25×25	0.30	1.90	105	80	LKP1H272MQ025K
	3300	22×35	0.30	2.20	105	81	LKP1H332MP035K
		25×30	0.30	2.10	105	81	LKP1H332MQ030K
	3900	25×35	0.30	2.31	90	70	LKP1H392MQ035K
		30×25	0.30	2.30	90	70	LKP1H392MR025K
	4700	22×40	0.30	2.54	75	60	LKP1H472MP040K
		25×35	0.30	2.54	75	60	LKP1H472MQ035K
	5600	25×40	0.30	2.58	75	60	LKP1H562MQ040K
		30×30	0.30	2.54	75	60	LKP1H562MR030K
	6800	25×45	0.30	2.83	60	50	LKP1G682MQ045K
		30×35	0.30	2.80	60	50	LKP1H682MR035K
	8200	25×50	0.30	3.50	60	50	LKP1H822MQ050K
		30×40	0.30	3.20	60	50	LKP1H822MR040K
	10000	30×45	0.30	3.60	50	40	LKP1H103MR045K
35×35		0.30	3.60	50	40	LKP1H103MS035K	
12000	30×50	0.30	4.00	40	31	LKP1H123MR050K	
	35×40	0.30	3.90	40	31	LKP1H123MS040K	
15000	35×50	0.30	4.55	40	30	LKP1H153MS050K	
63 1J (79)	1500	22×25	0.25	1.62	140	110	LKP1J152MP025K
	1800	22×30	0.25	1.93	115	90	LKP1J182MP030K
	2200	22×30	0.25	2.10	100	75	LKP1J222MP030K
		25×25	0.25	2.05	100	75	LKP1J222MQ025K
	2700	22×35	0.25	2.25	80	60	LKP1J272MP035K
		25×30	0.25	2.33	80	60	LKP1J272MQ030K
	3300	22×40	0.25	2.37	90	68	LKP1J332MP040K
		25×35	0.25	2.36	90	68	LKP1J332MQ035K
		30×25	0.25	2.31	90	68	LKP1J332MR025K
	3900	22×45	0.25	2.52	70	60	LKP1J392MP045K
		25×40	0.25	2.60	70	60	LKP1J392MQ040K
		30×30	0.25	2.51	70	60	LKP1J392MR030K
	4700	22×50	0.25	2.91	65	52	LKP1J472MP050K
		25×45	0.25	3.04	65	52	LKP1J472MQ045K
	5600	25×45	0.25	3.14	50	40	LKP1J562MQ045K
		30×35	0.25	3.22	50	40	LKP1J562MR035K
		35×30	0.25	3.30	50	40	LKP1J562MS030K
	6800	30×40	0.25	3.60	45	35	LKP1J682MR040K
35×35		0.25	3.72	45	35	LKP1J682MS035K	
8200	30×50	0.25	3.70	45	35	LKP1J822MR050K	
	35×40	0.25	3.80	45	35	LKP1J822MS040K	
10000	35×45	0.25	4.32	35	30	LKP1J103MS045K	
12000	35×50	0.25	4.81	30	25	LKP1J123MS050K	
80 1K (100)	1000	22×25	0.20	1.30	200	160	LKP1K102MP025K
	1200	22×30	0.20	1.50	170	135	LKP1K122MP030K
		22×40	0.20	1.70	170	135	LKP1K122MP040K
	1500	22×35	0.20	1.82	135	110	LKP1K152MP035K
		25×25	0.20	1.70	135	110	LKP1K152MQ025K
	1800	22×35	0.20	1.94	115	90	LKP1K182MP035K
		25×30	0.20	1.91	115	90	LKP1K182MQ030K
	2200	22×40	0.20	2.14	95	75	LKP1K222MP040K
		25×35	0.20	2.25	95	75	LKP1K222MQ035K
		30×25	0.20	2.23	95	75	LKP1K222MR025K
	2700	22×50	0.20	2.56	75	60	LKP1K272MP050K
		25×40	0.20	2.53	75	60	LKP1K272MQ040K
		30×30	0.20	2.50	75	60	LKP1K272MR030K
	3300	25×45	0.20	2.84	65	50	LKP1K332MQ045K
		30×35	0.20	2.81	65	50	LKP1K332MR035K
	3900	30×40	0.20	3.22	55	45	LKP1K392MR040K
		35×30	0.20	3.20	55	45	LKP1K392MS030K
	4700	30×45	0.20	3.66	45	40	LKP1K472MR045K
35×35		0.20	3.62	45	40	LKP1K472MS035K	
5600	30×50	0.20	3.52	50	40	LKP1K562MR050K	
	35×40	0.20	3.51	50	40	LKP1K562MS040K	
6800	35×50	0.20	4.10	45	35	LKP1K682MS050K	

ENGLISH

LKP SERIES

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 85°C, 120Hz (Arms)	Max ESR 20°C, 120Hz (mΩ)	ESR(typ.) 20°C, 120Hz (mΩ)	Part number
100 2A (125)	680	22*25	0.20	1.10	300	240	LKP2A681MP025K
	820	22*30	0.20	1.21	250	200	LKP2A821MP030K
	1000	22*35	0.20	1.53	210	165	LKP2A102MP035K
		25*25	0.20	1.45	210	165	LKP2A102MP025K
	1200	22*35	0.20	1.63	180	145	LKP2A122MP035K
		25*30	0.20	1.61	180	145	LKP2A122MQ030K
	1500	22*40	0.20	1.81	140	115	LKP2A152MP040K
		25*35	0.20	1.72	140	115	LKP2A152MQ035K
		30*25	0.20	1.83	140	115	LKP2A152MR025K
	1800	22*50	0.20	2.15	120	95	LKP2A182MP050K
		25*40	0.20	2.12	120	95	LKP2A182MQ040K
		30*30	0.20	2.10	120	95	LKP2A182MR030K
	2200	25*45	0.20	2.23	100	80	LKP2A222MQ045K
		30*35	0.20	2.32	100	80	LKP2A222MR035K
		35*30	0.20	2.51	100	80	LKP2A222MS030K
	2700	25*50	0.20	2.62	80	65	LKP2A272MQ050K
		30*40	0.20	2.70	80	65	LKP2A272MR040K
	3300	30*45	0.20	3.10	70	55	LKP2A332MR045K
		35*35	0.20	3.05	70	55	LKP2A332MS035K
	3900	30*50	0.20	3.44	60	45	LKP2A392MR050K
35*40		0.20	3.42	60	45	LKP2A392MS040K	
4700	35*50	0.20	4.03	50	40	LKP2A472MS050K	
160 2C (200)	270	22*25	0.15	1.20	500	400	LKP2C271MP025K
	330	22*30	0.15	1.31	420	350	LKP2C331MP030K
	390	22*35	0.15	1.54	350	280	LKP2C391MP035K
		25*25	0.15	1.52	350	280	LKP2C391MQ025K
	470	25*30	0.15	1.62	300	230	LKP2C471MQ030K
		22*35	0.15	1.92	250	195	LKP2C561MP035K
	560	25*30	0.15	1.91	250	195	LKP2C561MQ030K
		30*25	0.15	2.00	250	195	LKP2C561MR025K
		22*40	0.15	2.11	200	160	LKP2C681MP040K
	680	25*35	0.15	2.20	200	160	LKP2C681MQ035K
		22*50	0.15	2.51	170	135	LKP2C821MP050K
		30*30	0.15	2.43	170	135	LKP2C821MQ045K
	820	30*30	0.15	2.50	170	135	LKP2C821MR030K
		25*45	0.15	2.70	140	110	LKP2C102MQ045K
		30*40	0.15	2.81	140	110	LKP2C102MR040K
	1000	35*35	0.15	2.70	140	110	LKP2C102MS035K
		30*40	0.15	3.21	120	90	LKP2C122MR040K
	1200	35*35	0.15	3.13	120	92	LKP2C122MS035K
		30*45	0.15	3.72	110	90	LKP2C152MR045K
	1500	35*40	0.15	3.53	110	90	LKP2C152MS040K
1800		35*45	0.15	3.93	90	75	LKP2C182MS045K
2200	35*50	0.15	4.51	80	60	LKP2C222MS050K	
180 2K (225)	270	22*25	0.15	1.21	500	400	LKP2K271MP025K
	330	22*30	0.15	1.41	400	330	LKP2K331MP030K
	390	25*25	0.15	1.52	350	280	LKP2K391MQ025K
		22*35	0.15	1.71	285	230	LKP2K471MP035K
	470	25*30	0.15	1.72	285	230	LKP2K471MQ030K
		30*25	0.15	1.82	285	230	LKP2K471MR025K
		22*40	0.15	1.95	240	200	LKP2K561MP040K
	560	25*35	0.15	2.01	240	200	LKP2K561MQ035K
		22*50	0.15	0.22	200	160	LKP2K681MP050K
	680	25*40	0.15	2.22	200	160	LKP2K681MQ040K
		30*30	0.15	2.30	200	160	LKP2K681MR030K
		35*25	0.15	2.21	240	190	LKP2K681MS025K
	820	25*45	0.15	2.52	170	130	LKP2K821MQ045K
		30*35	0.15	2.61	170	130	LKP2K821MR035K
		35*30	0.15	2.50	200	160	LKP2K821MS030K
	1000	25*50	0.15	2.90	140	110	LKP2K102MQ050K
		30*40	0.15	2.90	140	110	LKP2K102MR040K
	1200	30*45	0.15	3.31	140	90	LKP2K122MR045K
		35*35	0.15	3.12	140	110	LKP2K122MS035K
	1500	35*45	0.15	3.61	110	90	LKP2K152MS045K
1800	35*50	0.15	4.12	90	80	LKP2K182MS050K	
200 2D (250)	220	22*25	0.15	1.10	600	500	LKP2D221MP025K
	270	22*30	0.15	1.21	500	400	LKP2D271MP030K
		22*30	0.15	1.41	410	330	LKP2D331MP030K
	330	25*25	0.15	1.40	410	330	LKP2D331MQ025K
		22*35	0.15	1.61	350	280	LKP2D391MP035K
390	25*30	0.15	1.61	350	280	LKP2D391MQ030K	



Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 85°C, 120Hz (Arms)	Max ESR 20°C, 120Hz (mΩ)	ESR(typ.) 20°C, 120Hz (mΩ)	Part number
200 2D (250)	470	22*40	0.15	1.81	300	230	LKP2D471MP040K
		30*25	0.15	1.92	300	230	LKP2D471MR025K
	560	22*45	0.15	2.03	250	200	LKP2D561MP045K
		25*35	0.15	2.02	250	200	LKP2D561MQ035K
		30*30	0.15	2.10	250	200	LKP2D561MR030K
		35*25	0.15	2.02	250	200	LKP2D561MS025K
	680	25*40	0.15	2.31	200	160	LKP2D681MQ040K
		30*35	0.15	2.42	200	160	LKP2D681MR035K
	820	25*50	0.15	2.61	170	135	LKP2D821MQ050K
		30*40	0.15	2.71	170	135	LKP2D821MR040K
		35*30	0.15	25.26	170	135	LKP2D821MS030K
	1000	30*45	0.15	3.12	150	110	LKP2D102MR045K
		35*35	0.15	2.83	160	130	LKP2D102MS035K
	1200	30*50	0.15	3.42	120	90	LKP2D122MR050K
		35*40	0.15	3.20	140	110	LKP2D122MS040K
1500	35*50	0.15	3.83	110	90	LKP2D152MS050K	
250 2E (300)	180	22*25	0.15	0.94	1110	890	LKP2E181MP025K
	220	22*30	0.15	1.12	910	730	LKP2E221MP030K
		25*25	0.15	1.13	910	730	LKP2E221MQ025K
	270	22*35	0.15	1.23	750	600	LKP2E271MP035K
		22*40	0.15	1.45	610	490	LKP2E331MP040K
	330	25*30	0.15	1.43	610	490	LKP2E331MQ030K
		30*25	0.15	1.53	610	490	LKP2E331MR025K
		22*45	0.15	1.63	520	410	LKP2E391MP045K
	390	25*35	0.15	1.62	520	410	LKP2E391MQ035K
		25*40	0.15	1.83	430	340	LKP2E471MQ040K
	470	30*30	0.15	1.82	430	340	LKP2E471MR030K
		35*25	0.15	2.42	430	340	LKP2E471MS025K
		25*45	0.15	2.05	360	290	LKP2E561MQ045K
	560	30*35	0.15	2.05	360	290	LKP2E561MR035K
		30*40	0.15	2.35	300	240	LKP2E681MR040K
	680	35*30	0.15	2.63	300	240	LKP2E681MS030K
		30*45	0.15	2.61	250	200	LKP2E821MR045K
	820	35*35	0.15	2.60	250	200	LKP2E821MS035K
		35*40	0.15	3.02	200	165	LKP2E102MS040K
	1000	35*45	0.15	3.43	170	140	LKP2E122MS045K
	1200	35*45	0.15	3.43	170	140	LKP2E122MS045K
315 2F (365)	100	22*25	0.15	0.67	2000	1600	LKP2F101MP025K
	120	22*25	0.15	0.74	2000	1600	LKP2F121MP025K
		22*30	0.15	0.86	1330	1100	LKP2F151MP030K
	150	25*25	0.15	0.85	1330	1100	LKP2F151MQ025K
		22*35	0.15	0.97	1110	890	LKP2F181MP035K
	180	25*30	0.15	0.96	1110	890	LKP2F181MQ030K
		22*40	0.15	1.14	910	730	LKP2F221MP040K
	220	25*35	0.15	1.13	910	730	LKP2F221MQ035K
		30*25	0.15	1.11	910	730	LKP2F221MR025K
		22*45	0.15	1.23	740	600	LKP2F271MP045K
	270	25*40	0.15	1.32	740	600	LKP2F271MQ040K
		30*30	0.15	1.31	740	600	LKP2F271MR030K
		35*25	0.15	1.30	740	600	LKP2F271MS025K
		25*45	0.15	1.42	610	490	LKP2F331MQ045K
	330	30*35	0.15	1.41	610	490	LKP2F331MR035K
		30*40	0.15	1.62	520	410	LKP2F391MR040K
	390	35*30	0.15	1.60	520	410	LKP2F391MS030K
		30*45	0.15	1.81	430	345	LKP2F471MR045K
	470	35*35	0.15	1.81	430	345	LKP2F471MS035K
		30*50	0.15	2.04	360	290	LKP2F561MR050K
	560	35*40	0.15	2.02	360	290	LKP2F561MS040K
		35*45	0.15	2.30	300	240	LKP2F681MS045K
	82	22*25	0.15	0.65	2450	1950	LKP2V820MP025K
	100	22*25	0.15	0.78	2000	1600	LKP2V101MP025K
		22*30	0.15	0.84	1670	1330	LKP2V121MP030K
	120	25*25	0.15	0.82	1670	1300	LKP2V121MQ025K
		22*35	0.15	0.96	1330	1070	LKP2V151MP035K
150	25*30	0.15	0.95	1330	1070	LKP2V151MQ030K	
	22*40	0.15	1.15	1110	890	LKP2V181MP040K	
180	30*25	0.15	0.12	1110	890	LKP2V181MR025K	
	22*45	0.15	1.24	920	730	LKP2V221MP045K	
220	25*35	0.15	1.23	920	730	LKP2V221MQ035K	
	30*30	0.15	1.22	920	730	LKP2V221MR030K	

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LKP SERIES

Rated Voltage Code (V.DC)	Capacitance (μ F)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 85°C, 120Hz (Arms)	Max ESR 20°C, 120Hz (mΩ)	ESR(typ.) 20°C, 120Hz (mΩ)	Part number	
350 2V (400)	270	25*45	0.15	1.44	745	595	LKP2V271MQ045K	
		30*35	0.15	1.43	745	595	LKP2V271MR035K	
		35*30	0.15	1.43	745	595	LKP2V271MS030K	
	330	25*50	0.15	1.65	610	485	LKP2V331MQ050K	
		30*40	0.15	1.65	610	485	LKP2V331MR040K	
		35*30	0.15	1.63	610	485	LKP2V331MS030K	
	390	30*40	0.15	1.74	515	410	LKP2V391MR040K	
		35*35	0.15	1.80	515	410	LKP2V391MS035K	
	470	30*45	0.15	2.05	430	340	LKP2V471MR045K	
		35*40	0.15	2.00	430	340	LKP2V471MS040K	
	560	35*45	0.15	2.31	360	290	LKP2V561MS045K	
	680	35*50	0.15	2.62	360	290	LKP2V681MS050K	
	820	35*60	0.15	2.82	250	200	LKP2V821MS060K	
	400 2G (450)	82	22*25	0.15	0.64	2430	1945	LKP2G820MP025K
100		22*30	0.15	0.71	1995	1595	LKP2G101MP030K	
		25*25	0.15	0.70	1995	1595	LKP2G101MQ025K	
120		22*35	0.15	0.80	1660	1330	LKP2G121MP035K	
		25*30	0.15	0.92	1330	1065	LKP2G151MQ030K	
150		30*25	0.15	0.95	1330	1065	LKP2G151MR025K	
		25*35	0.15	1.01	1110	890	LKP2G181MQ035K	
		30*30	0.15	1.10	1110	890	LKP2G181MR030K	
180		35*25	0.15	1.21	1110	890	LKP2G181MS025K	
		22*50	0.15	1.12	910	730	LKP2G221MP050K	
		25*40	0.15	1.23	910	730	LKP2G221MQ040K	
220		30*35	0.15	1.24	910	730	LKP2G221MR035K	
		25*45	0.15	1.35	740	600	LKP2G271MQ045K	
		30*40	0.15	1.51	740	600	LKP2G271MR040K	
270		35*35	0.15	1.56	740	600	LKP2G271MS035K	
		30*45	0.15	1.71	610	490	LKP2G331MR045K	
		35*30	0.15	1.63	610	490	LKP2G331MS030K	
390		30*50	0.15	1.83	515	415	LKP2G391MR050K	
		35*35	0.15	1.83	515	415	LKP2G391MS035K	
		35*45	0.15	2.15	425	345	LKP2G471MS045K	
560		35*45	0.15	2.10	360	290	LKP2G561MS045K	
		35*50	0.15	2.30	360	290	LKP2G561MS050K	
680		35*50	0.15	2.36	350	270	LKP2G681MS050K	
820		35*60	0.15	3.00	342	260	LKP2G821MS060K	
1000		35*65	0.15	3.10	300	250	LKP2G102MS065K	
450 2W (500)		68	22*30	0.15	0.57	2930	2345	LKP2W680MP030K
		82	25*35	0.15	0.70	2430	1945	LKP2W820MQ035K
		100	22*35	0.15	0.72	1995	1600	LKP2W101MP035K
			25*30	0.15	0.73	1995	1600	LKP2W101MQ030K
		120	22*40	0.15	0.80	1660	1330	LKP2W121MP040K
	25*35		0.15	0.84	1660	1330	LKP2W121MQ035K	
	150	25*40	0.15	0.95	1330	1070	LKP2W151MQ040K	
		30*30	0.15	0.96	1330	1070	LKP2W151MR030K	
		35*25	0.15	0.99	1330	1070	LKP2W151MS025K	
	180	25*45	0.15	1.10	1110	895	LKP2W181MQ045K	
		30*35	0.15	1.11	1110	895	LKP2W181MR035K	
		35*25	0.15	1.23	1110	895	LKP2W181MS025K	
	220	25*50	0.15	1.20	915	730	LKP2W221MQ050K	
		30*40	0.15	1.32	915	730	LKP2W221MR040K	
		35*30	0.15	1.32	915	730	LKP2W221MS030K	
	270	30*45	0.15	1.40	740	590	LKP2W271MR045K	
		35*35	0.15	1.50	740	590	LKP2W271MS035K	
	330	30*50	0.15	1.71	610	490	LKP2W331MR050K	
	390	35*45	0.15	1.90	520	415	LKP2W391MS045K	
	470	35*50	0.15	2.21	430	342	LKP2W471MS050K	
560	35*60	0.15	2.25	360	320	LKP2W561MS060K		
500 2H (550)	100	30*25	0.15	0.92	1995	1600	LKP2H101MR025K	
	120	30*30	0.15	1.00	1665	1330	LKP2H121MR030K	
		35*25	0.15	1.00	1665	1330	LKP2H121MS025K	
	150	30*35	0.15	1.21	1330	1065	LKP2H151MR035K	
		30*40	0.15	1.42	1110	890	LKP2H181MR040K	
	180	35*30	0.15	1.31	1110	890	LKP2H181MS030K	
		30*45	0.15	1.62	910	730	LKP2H221MR045K	
	220	35*35	0.15	1.53	910	730	LKP2H221MS035K	
		30*50	0.15	1.80	740	595	LKP2H271MR050K	
	270	35*40	0.15	1.71	740	595	LKP2H271MS040K	
		330	35*45	0.15	2.00	610	485	LKP2H331MS045K
	390	35*50	0.15	2.30	520	415	LKP2H391MS050K	

LKQ SERIES (85°C 5000H)

- Compliant to the RoHS directive.
- 85°C High ripple current series.
- 5000H Long life general industrial electronics.



■ Specification

Item	Performance Characteristics	
	-40°C ~ +85°C	-25°C ~ +85°C
Operating range	-40°C ~ +85°C	-25°C ~ +85°C
Rated voltage range	10V ~ 400V	450V
Capacitance tolerance	±20% (20°C, 120Hz)	
Leakage current	1 ≤ 0.01CV (µA) or 1.5mA (Whichever is smaller) (20°C, after 5 minutes) C=Nominal capacitance (µF), V=Rated voltage (V)	
Dissipation factor (20°C, 120Hz)	U _r (V)	10 16 25 35 50 63 ~ 100 160 ~ 450
	tan δ	0.80 0.60 0.50 0.40 0.30 0.20 0.15
Stability at Low Temperature (Impedance ratio at 120Hz)	U _r (V)	10 16 ~ 35 50 ~ 100 160 ~ 200 250 ~ 400 450
	Z (-25°C) / Z (+20°C)	5 4 3 4
	Z (-40°C) / Z (+20°C)	18 15 10 6 8 —
Load Life	After applying rated voltage with specified ripple current for 5000 hours at 85°C (the peak voltage shall not exceed the rated voltage), and then restored for 24 hours, capacitor shall meet the following requirement:	
	Capacitance change	Within ±20% of the initial value.
	Dissipation factor	Not more than 200% of the initial specified value.
	Leakage current	Not more than the initial specified value.
Shelf Life	After storing for 1000 hours at 85°C, U _r to be applied for 30 minutes and then restored for 24 hours, capacitor shall meet the following requirement:	
	Capacitance change	Within ±20% of the initial value.
	Dissipation factor	Not more than 200% of the initial specified value.
	Leakage current	Not more than the initial specified value.
Standard	JIS C 5101-4	

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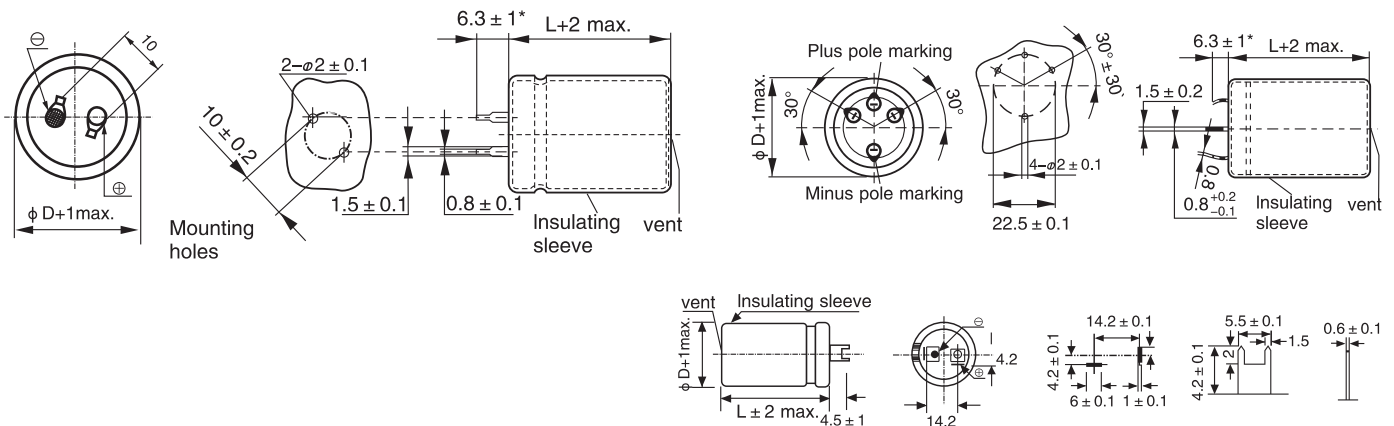
■ Ripple current correction coefficient

U _r (V) \ T(°C)	40	55	70	85
< 160	2.1	1.8	1.5	1.0
≥ 160	1.7	1.5	1.3	1.0

U _r (V) \ F(Hz)	50(60)	120	1K	10K	100K
≤ 50	0.90	1.00	1.10	1.15	1.15
63-100	0.90	1.00	1.16	1.30	1.33
≥ 160	0.90	1.00	1.20	1.50	1.55

■ Drawing

Unit : mm



*: Shorter terminal is : $4.0 \pm 0.5\text{mm}$

LKQ SERIES

■ LKQ Products Table

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 85°C,120Hz (Arms)	Max ESR 20°C,120Hz (mΩ)	ESR(typ.) 20°C,120Hz (mΩ)	Part number	
10 1A (13)	10000	22*25	0.80	2.57	110	75	LKQ1A103MP025K	
	12000	22*30	0.80	2.78	90	65	LKQ1A123MP030K	
	15000	22*35	0.80	3.29	75	50	LKQ1A153MP035K	
		25*25	0.80	3.15	75	50	LKQ1A153MQ025K	
	18000	22*40	0.80	3.70	60	45	LKQ1A183MP040K	
		25*30	0.80	3.66	60	45	LKQ1A183MQ030K	
	22000	22*45	0.80	4.13	50	35	LKQ1A223MP045K	
		25*35	0.80	4.13	50	35	LKQ1A223MQ035K	
	16 1C (20)	8200	22*30	0.60	2.27	100	70	LKQ1C822MP030K
		10000	22*35	0.60	2.69	85	60	LKQ1C103MP035K
12000		22*40	0.60	2.98	70	60	LKQ1C123MP040K	
15000		22*45	0.60	3.38	55	40	LKQ1C153MP045K	
		25*30	0.60	3.33	55	40	LKQ1C153MQ030K	
18000		22*50	0.60	3.89	45	35	LKQ1C183MP050K	
		25*35	0.60	3.87	45	35	LKQ1C183MQ035K	
22000		25*40	0.60	4.42	40	28	LKQ1C223MQ040K	
		30*30	0.60	4.42	40	28	LKQ1C223MR030K	
25 1E (32)		5600	22*25	0.50	2.20	120	85	LKQ1E562MP025K
	6800	22*30	0.50	2.33	100	70	LKQ1E682MP030K	
		25*30	0.50	2.35	100	70	LKQ1E682MQ030K	
	8200	22*35	0.50	2.66	85	60	LKQ1E822MP035K	
	10000	22*40	0.50	2.99	70	50	LKQ1E103MP040K	
		25*35	0.50	2.88	70	50	LKQ1E103MQ035K	
	12000	25*40	0.50	3.30	60	40	LKQ1E123MQ040K	
		30*30	0.50	3.40	60	40	LKQ1E123MR030K	
	15000	25*45	0.50	3.77	45	35	LKQ1E153MQ045K	
		35*25	0.50	3.90	45	35	LKQ1E153MS025K	
	18000	30*40	0.50	4.29	40	30	LKQ1E183MR040K	
		35*30	0.50	4.40	40	30	LKQ1E183MS030K	
	22000	30*45	0.50	4.90	30	25	LKQ1E223MR045K	
		35*35	0.50	5.00	30	25	LKQ1E223MS035K	
35 1V (44)	4700	25*30	0.40	2.28	120	80	LKQ1V472MQ030K	
	5600	25*35	0.40	2.38	100	70	LKQ1V562MQ035K	
	6800	25*40	0.40	2.68	80	55	LKQ1V682MQ040K	
		30*25	0.40	2.77	80	55	LKQ1V682MR025K	
	8200	25*45	0.40	2.86	65	45	LKQ1V822MQ045K	
		30*30	0.40	2.85	65	45	LKQ1V822MR030K	
	10000	25*50	0.40	3.20	55	40	LKQ1V103MQ050K	
		30*35	0.40	3.30	55	40	LKQ1V103MR035K	
	12000	30*40	0.40	3.58	45	35	LKQ1V123MR040K	
		35*30	0.40	3.66	45	35	LKQ1V123MS030K	
	15000	30*45	0.40	4.20	35	25	LKQ1V153MR045K	
		35*35	0.40	4.20	35	25	LKQ1V153MS035K	
	18000	30*50	0.40	4.70	30	22	LKQ1V183MR050K	
		35*40	0.40	4.70	30	22	LKQ1V183MS040K	
22000	35*45	0.40	5.40	25	20	LKQ1V223MS045K		
50 1H (63)	2200	22*25	0.30	1.75	190	130	LKQ1H222MP025K	
	2700	22*30	0.30	1.92	150	110	LKQ1H272MP030K	
		25*25	0.30	1.90	150	110	LKQ1H272MQ025K	
	3300	22*35	0.30	2.10	125	90	LKQ1H332MP035K	
	3900	22*40	0.30	2.18	110	75	LKQ1H392MP040K	
		25*30	0.30	2.11	110	75	LKQ1H392MQ030K	
	4700	22*45	0.30	2.50	90	60	LKQ1H472MP045K	
		25*35	0.30	2.48	90	60	LKQ1H472MQ035K	
	5600	22*50	0.30	2.56	75	50	LKQ1H562MP050K	
		25*40	0.30	2.58	75	50	LKQ1H562MQ040K	
	6800	25*50	0.30	2.89	60	45	LKQ1H682MQ050K	
		30*35	0.30	2.80	60	45	LKQ1H682MR035K	
	8200	30*40	0.30	3.18	50	35	LKQ1H821MR040K	
		35*35	0.30	3.20	50	35	LKQ1H821MR035K	
	10000	30*45	0.30	3.43	40	30	LKQ1H103MR045K	
		35*40	0.30	3.48	40	30	LKQ1H103MS040K	
	12000	30*50	0.30	4.00	35	25	LKQ1H123MR050K	
		35*45	0.30	3.89	35	25	LKQ1H123MS045K	
15000	35*50	0.30	4.55	30	20	LKQ1H153MS050K		



Rated Voltage Code (V.DC)	Capacitance (μ F)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 85°C, 120Hz (Arms)	Max ESR 20°C, 120Hz (mΩ)	ESR(typ.) 20°C, 120Hz (mΩ)	Part number
63 1J (79)	1500	22*25	0.20	1.62	180	125	LKQ1J152MP025K
	1800	22*30	0.20	1.93	150	110	LKQ1J182MP030K
	2200	25*30	0.20	2.08	125	85	LKQ1J222MQ030K
	2700	22*35	0.20	2.25	100	70	LKQ1J272MP035K
		25*35	0.20	2.34	100	70	LKQ1J272MQ035K
	3300	22*40	0.20	2.37	80	60	LKQ1J332MP040K
		25*40	0.20	2.36	80	60	LKQ1J332MQ040K
		30*25	0.20	2.31	80	60	LKQ1J332MR025K
	3900	22*45	0.20	2.52	70	50	LKQ1J392MP045K
		25*45	0.20	2.60	70	50	LKQ1J392MQ045K
		30*30	0.20	2.60	70	50	LKQ1J392MR030K
		35*25	0.20	2.70	70	50	LKQ1J392MS025K
	4700	30*35	0.20	2.96	60	40	LKQ1J472MR035K
	5600	25*45	0.20	3.14	50	35	LKQ1J562MQ045K
		30*40	0.20	3.26	50	35	LKQ1J562MR040K
		35*30	0.20	3.30	50	35	LKQ1J562MS030K
	6800	30*45	0.20	3.68	40	30	LKQ1J682MR045K
		35*35	0.20	3.72	40	30	LKQ1J682MS035K
8200	30*50	0.20	3.70	35	25	LKQ1J822MR050K	
	35*40	0.20	3.80	35	25	LKQ1J822MS040K	
10000	35*45	0.20	4.32	30	20	LKQ1J103MS045K	
12000	35*50	0.20	4.81	25	18	LKQ1J123MS050K	
80 1K (100)	1000	22*25	0.20	1.30	270	190	LKQ1K102MP025K
	1200	22*30	0.20	1.50	225	160	LKQ1K122MP030K
	1500	22*35	0.20	1.82	180	130	LKQ1K152MP035K
		25*30	0.20	1.75	180	130	LKQ1K152MQ030K
	1800	22*35	0.20	1.94	150	110	LKQ1K182MP035K
		25*40	0.20	2.25	125	85	LKQ1K222MQ040K
	2200	30*25	0.20	2.23	125	85	LKQ1K222MR025K
		22*50	0.20	2.56	100	70	LKQ1K272MP050K
	2700	25*45	0.20	2.55	100	70	LKQ1K272MQ045K
		30*30	0.20	2.50	100	70	LKQ1K272MR030K
		25*50	0.20	2.85	85	60	LKQ1K332MQ050K
	3300	30*35	0.20	2.81	85	60	LKQ1K332MR035K
		25*50	0.20	3.20	70	50	LKQ1K392MQ050K
	3900	30*40	0.20	3.22	70	50	LKQ1K392MR040K
		35*35	0.20	3.25	70	50	LKQ1K392MS035K
		30*45	0.20	3.66	60	40	LKQ1K472MR045K
	4700	35*40	0.20	3.66	60	40	LKQ1K472MS040K
		30*50	0.20	3.79	50	35	LKQ1K562MR050K
5600	35*45	0.20	3.85	50	35	LKQ1K562MS045K	
	35*50	0.20	4.10	25	18	LKQ1K682MS050K	
100 2A (125)	680	22*25	0.20	1.10	390	280	LKQ2A681MP025K
	820	22*30	0.20	1.21	330	230	LKQ2A821MP030K
	1000	25*30	0.20	1.45	270	190	LKQ2A102MQ030K
	1200	22*35	0.20	1.63	225	160	LKQ2A122MP035K
	1500	22*40	0.20	1.81	180	130	LKQ2A152MP040K
		25*40	0.20	1.74	180	130	LKQ2A152MQ040K
		30*25	0.20	1.83	180	130	LKQ2A152MR025K
	1800	22*50	0.20	2.15	150	110	LKQ2A182MP050K
		25*45	0.20	2.10	150	110	LKQ2A182MQ045K
		30*30	0.20	2.10	150	110	LKQ2A182MR030K
	2200	25*50	0.20	2.25	125	90	LKQ2A222MQ050K
		30*35	0.20	2.32	125	90	LKQ2A222MR035K
		35*30	0.20	2.51	125	90	LKQ2A222MS030K
	2700	25*55	0.20	2.66	100	70	LKQ2A272MQ055K
		30*40	0.20	2.70	100	70	LKQ2A272MR040K
	3300	30*45	0.20	3.10	80	60	LKQ2A332MR045K
		35*40	0.20	3.17	80	60	LKQ2A332MS040K
	3900	30*50	0.20	3.44	70	50	LKQ2A392MR050K
35*45		0.20	3.48	70	50	LKQ2A392MS045K	
4700	35*50	0.20	4.03	60	40	LKQ2A472MS050K	

ENGLISH

LKQ SERIES

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 85°C,120Hz (Arms)	Max ESR 20°C,120Hz (mΩ)	ESR(typ.) 20°C,120Hz (mΩ)	Part number
160 2C (200)	330	22*30	0.15	1.31	610	425	LKQ2C331MP030K
	390	22*35	0.15	1.54	510	360	LKQ2C391MP035K
		25*25	0.15	1.52	510	360	LKQ2C391MQ025K
	470	25*25	0.15	1.72	430	300	LKQ2C471MQ025K
	560	22*40	0.15	1.95	360	250	LKQ2C561MP040K
		25*30	0.15	1.91	360	250	LKQ2C561MQ030K
		30*25	0.15	2.00	360	250	LKQ2C561MR025K
	680	22*45	0.15	2.14	300	205	LKQ2C681MP045K
		25*35	0.15	2.20	300	205	LKQ2C681MQ035K
	820	22*50	0.15	2.51	250	170	LKQ2C821MP050K
		25*40	0.15	2.42	250	170	LKQ2C821MQ040K
		30*35	0.15	2.55	250	170	LKQ2C821MR035K
	1000	25*45	0.15	2.70	200	140	LKQ2C102MQ045K
		30*40	0.15	2.84	200	140	LKQ2C102MR040K
		35*30	0.15	2.70	200	140	LKQ2C102MS030K
1200	30*45	0.15	3.26	170	120	LKQ2C122MR045K	
	35*35	0.15	3.13	170	120	LKQ2C122MS035K	
1500	30*50	0.15	3.77	140	95	LKQ2C152MR050K	
	35*40	0.15	3.53	140	95	LKQ2C152MS040K	
1800	35*45	0.15	3.93	120	80	LKQ2C182MS045K	
2200	35*50	0.15	4.51	95	70	LKQ2C222MS050K	
180 2K (225)	270	22*25	0.15	1.21	740	520	LKQ2K271MP025K
	330	22*35	0.15	1.45	610	425	LKQ2K331MP035K
	390	25*25	0.15	1.52	510	360	LKQ2K391MQ025K
	470	22*40	0.15	1.77	425	300	LKQ2K471MP040K
		25*30	0.15	1.72	425	300	LKQ2K471MQ030K
		30*25	0.15	1.82	425	300	LKQ2K471MR025K
	560	22*45	0.15	1.98	355	250	LKQ2K561MP045K
		25*35	0.15	2.01	355	250	LKQ2K561MQ035K
	680	22*50	0.15	2.22	295	210	LKQ2K681MP050K
		25*45	0.15	2.26	295	210	LKQ2K681MQ045K
		30*30	0.15	2.30	295	210	LKQ2K681MR030K
		35*25	0.15	2.21	295	210	LKQ2K681MS025K
	820	25*50	0.15	2.58	245	170	LKQ2K821MQ050K
		30*35	0.15	2.61	245	170	LKQ2K821MR035K
		35*30	0.15	2.50	245	170	LKQ2K821MS030K
	1000	30*40	0.15	2.90	200	140	LKQ2K102MR040K
		35*35	0.15	2.94	200	140	LKQ2K102MS035K
	1200	30*45	0.15	3.31	170	120	LKQ2K122MR045K
35*40		0.15	3.16	170	120	LKQ2K122MS040K	
1500	35*45	0.15	3.61	135	100	LKQ2K152MS045K	
1800	35*50	0.15	4.12	115	80	LKQ2K182MS050K	
200 2D (250)	220	22*25	0.15	1.10	910	635	LKQ2D221MP025K
	270	22*30	0.15	1.21	740	520	LKQ2D271MP030K
	330	22*35	0.15	1.44	610	425	LKQ2D331MP035K
		25*25	0.15	1.40	610	425	LKQ2D331MQ025K
	390	22*40	0.15	1.65	510	360	LKQ2D391MP040K
		25*30	0.15	1.61	510	360	LKQ2D391MQ030K
	470	22*45	0.15	1.85	425	300	LKQ2D471MP045K
		30*25	0.15	1.92	425	300	LKQ2D471MR025K
	560	22*50	0.15	2.06	355	250	LKQ2D561MP050K
		25*35	0.15	2.02	355	250	LKQ2D561MQ035K
		30*30	0.15	2.10	355	250	LKQ2D561MR030K
	680	25*45	0.15	2.35	295	210	LKQ2D681MQ045K
		30*35	0.15	2.42	295	210	LKQ2D681MR035K
	820	25*50	0.15	2.61	245	170	LKQ2D821MQ050K
		30*40	0.15	2.71	245	170	LKQ2D821MR040K
		35*35	0.15	2.56	245	170	LKQ2D821MS035K
	1000	30*45	0.15	3.12	200	140	LKQ2D102MR045K
		35*40	0.15	2.85	200	140	LKQ2D102MS040K
1200	30*50	0.15	3.42	170	120	LKQ2D122MR050K	
	35*45	0.15	3.26	170	120	LKQ2D122MS045K	
1500	35*50	0.15	3.83	135	100	LKQ2D152MS050K	



SNAP IN TYPE ALUMINUM ELECTROLYTIC CAPACITORS

LKQ SERIES

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 85°C, 120Hz (Arms)	Max ESR 20°C, 120Hz (mΩ)	ESR(typ.) 20°C, 120Hz (mΩ)	Part number	
250 2E (300)	180	22*25	0.15	0.94	1110	780	LKQ2E181MP025K	
	220	22*35	0.15	1.16	910	640	LKQ2E221MP035K	
		25*25	0.15	1.13	910	640	LKQ2E221MQ025K	
	270	22*40	0.15	1.25	740	520	LKQ2E271MP040K	
	330	22*45	0.15	1.46	610	425	LKQ2E331MP045K	
		25*30	0.15	1.43	610	425	LKQ2E331MQ030K	
		30*25	0.15	1.53	610	425	LKQ2E331MR025K	
	390	22*50	0.15	1.66	510	360	LKQ2E391MP050K	
		25*35	0.15	1.62	510	360	LKQ2E391MQ035K	
	470	25*40	0.15	1.83	425	300	LKQ2E471MQ040K	
		30*30	0.15	1.82	425	300	LKQ2E471MR030K	
		35*30	0.15	2.16	425	300	LKQ2E471MS030K	
	560	25*45	0.15	2.05	355	250	LKQ2E561MQ045K	
		30*35	0.15	2.05	355	250	LKQ2E561MR035K	
	680	30*45	0.15	2.35	295	210	LKQ2E681MR045K	
		35*30	0.15	2.45	295	210	LKQ2E681MS030K	
	820	30*50	0.15	2.66	245	170	LKQ2E821MR050K	
		35*35	0.15	2.60	245	170	LKQ2E821MS035K	
1000	35*40	0.15	3.02	200	140	LKQ2E102MS040K		
1200	35*45	0.15	3.43	170	120	LKQ2E122MS045K		
315 2F (365)	100	22*25	0.15	0.67	1995	1400	LKQ2F101MP025K	
	120	22*30	0.15	0.76	1665	1170	LKQ2F121MP030K	
	150	22*35	0.15	0.88	1330	935	LKQ2F151MP035K	
		25*25	0.15	0.85	1330	935	LKQ2F151MQ025K	
	180	22*40	0.15	1.00	1110	775	LKQ2F181MP040K	
		25*30	0.15	0.96	1110	775	LKQ2F181MQ030K	
	220	22*45	0.15	1.15	915	635	LKQ2F221MP045K	
		25*35	0.15	1.13	915	635	LKQ2F221MQ035K	
		30*25	0.15	1.11	915	635	LKQ2F221MR025K	
	270	22*50	0.15	1.26	740	520	LKQ2F271MP050K	
		25*40	0.15	1.32	740	520	LKQ2F271MQ040K	
		30*30	0.15	1.31	740	520	LKQ2F271MR030K	
		35*25	0.15	1.30	740	520	LKQ2F271MS025K	
	330	25*45	0.15	1.42	610	425	LKQ2F331MQ045K	
		30*35	0.15	1.41	610	425	LKQ2F331MR035K	
	390	30*40	0.15	1.62	515	360	LKQ2F391MR040K	
		35*30	0.15	1.60	515	360	LKQ2F391MS030K	
	470	30*45	0.15	1.81	425	300	LKQ2F471MR045K	
		35*35	0.15	1.81	425	300	LKQ2F471MS035K	
	560	30*50	0.15	2.04	355	250	LKQ2F561MR050K	
		35*40	0.15	2.02	355	250	LKQ2F561MS040K	
	680	35*45	0.15	2.30	295	210	LKQ2F681MS045K	
	350 2V (400)	82	22*25	0.15	0.65	2430	1700	LKQ2V820MP025K
		100	22*30	0.15	0.78	1995	1400	LKQ2V101MP030K
120		22*35	0.15	0.86	1660	1200	LKQ2V121MP035K	
		25*25	0.15	0.82	1660	1200	LKQ2V121MQ025K	
150		22*40	0.15	0.96	1330	930	LKQ2V151MP040K	
		25*30	0.15	0.95	1330	930	LKQ2V151MQ030K	
180		22*45	0.15	1.16	1110	780	LKQ2V181MP045K	
		30*25	0.15	1.12	1110	780	LKQ2V181MR025K	
220		25*35	0.15	1.23	910	635	LKQ2V221MQ035K	
		30*30	0.15	1.22	910	635	LKQ2V221MR030K	
270		25*45	0.15	1.44	740	520	LKQ2V271MQ045K	
		30*35	0.15	1.43	740	520	LKQ2V271MR035K	
330		25*50	0.15	1.65	610	425	LKQ2V331MQ050K	
		35*30	0.15	1.63	610	425	LKQ2V331MS030K	
390		30*45	0.15	1.76	515	360	LKQ2V391MR045K	
		35*35	0.15	1.80	515	360	LKQ2V391MS035K	
470		30*50	0.15	2.06	425	300	LKQ2V471MR050K	
		35*40	0.15	2.00	425	300	LKQ2V471MS040K	
560		35*45	0.15	2.31	360	250	LKQ2V561MS045K	
680		35*50	0.15	2.62	300	210	LKQ2V681MS050K	

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LKQ SERIES

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 85°C,120Hz (Arms)	Max ESR 20°C,120Hz (mΩ)	ESR(typ.) 20°C,120Hz (mΩ)	Part number
400 2G (450)	68	22*25	0.15	0.56	2930	2060	LKQ2G680MP025K
	82	22*30	0.15	0.69	2430	1700	LKQ2G820MP030K
	100	22*35	0.15	0.78	2000	1400	LKQ2G101MQ035K
		25*25	0.15	0.70	2000	1400	LKQ2G101MQ025K
	120	22*40	0.15	0.88	1660	1170	LKQ2G121MP040K
	150	25*35	0.15	0.94	1330	930	LKQ2G151MQ035K
		30*25	0.15	0.95	1330	930	LKQ2G151MR025K
	180	25*40	0.15	1.12	1110	780	LKQ2G181MQ040K
		30*30	0.15	1.10	1110	780	LKQ2G181MR030K
		35*25	0.15	1.21	1110	780	LKQ2G181MS025K
	220	22*50	0.15	1.12	910	640	LKQ2G221MP050K
		25*45	0.15	1.30	910	640	LKQ2G221MQ045K
		30*35	0.15	1.24	910	640	LKQ2G221MR035K
	270	25*50	0.15	1.35	740	520	LKQ2G271MQ050K
		30*40	0.15	1.45	740	520	LKQ2G271MR040K
		35*30	0.15	1.60	740	520	LKQ2G271MS030K
	330	30*45	0.15	1.63	610	430	LKQ2G331MR045K
		35*35	0.15	1.71	610	430	LKQ2G331MS035K
	390	30*50	0.15	1.85	520	360	LKQ2G391MR050K
		35*40	0.15	1.85	520	360	LKQ2G391MS040K
470	35*45	0.15	2.15	450	300	LKQ2G471MS045K	
560	35*50	0.15	2.10	360	250	LKQ2G561MS050K	
450 2W (500)	68	22*30	0.15	0.57	2930	2050	LKQ2W680MP030K
	82	22*35	0.15	0.68	2430	1700	LKQ2W820MP035K
	100	22*35	0.15	0.72	1995	1400	LKQ2W101MP035K
		25*30	0.15	0.73	1995	1400	LKQ2W101MQ030K
	120	22*40	0.15	0.80	1660	1170	LKQ2W121MP040K
		25*35	0.15	0.84	1660	1170	LKQ2W121MQ035K
	150	25*40	0.15	0.95	1330	935	LKQ2W151MQ040K
		30*35	0.15	1.10	1330	935	LKQ2W151MR035K
	180	25*45	0.15	1.10	1110	780	LKQ2W181MQ045K
		30*35	0.15	1.11	1110	780	LKQ2W181MR035K
		35*30	0.15	1.30	1110	780	LKQ2W181MS030K
	220	25*50	0.15	1.20	910	640	LKQ2W221MQ050K
		30*40	0.15	1.32	910	640	LKQ2W221MR040K
		35*35	0.15	1.50	910	640	LKQ2W221MS035K
	270	30*45	0.15	1.40	740	740	LKQ2W271MR045K
		35*40	0.15	1.78	740	740	LKQ2W271MS040K
330	30*50	0.15	1.71	610	610	LKQ2W331MR050K	
390	35*45	0.15	1.90	515	515	LKQ2W391MS045K	
470	35*50	0.15	2.21	430	430	LKQ2W471MS050K	

LKG SERIES (105°C 2000H)

- Compliant to the RoHS directive.
- 105°C 2000H high temperature and high ripple current series.
- General industry.



■ Specification

Item	Performance Characteristics			
	-40°C ~ +105°C	-25°C ~ +105°C		
Operating range	-40°C ~ +105°C	-25°C ~ +105°C		
Rated voltage range	16V ~ 100V	160V ~ 500V		
Capacitance tolerance	±20% (20°C, 120Hz)			
Leakage current	1 ≤ 0.01CV (µA) or 1.5mA (Whichever is smaller) (20°C, after 5 minutes) C=Nominal capacitance (µF), V=Rated voltage (V)			
Dissipation factor (20°C, 120Hz)	U _r (V)	16 25 35 50 63 ~ 100 160 ~ 400 450 ~ 500		
	tan δ	0.50 0.40 0.35 0.30 0.20 0.15 0.20		
Stability at Low Temperature (Impedance ratio at 120Hz)	U _r (V)	16 ~ 100 160 ~ 200 250 ~ 500		
	Z (-25°C) / Z(+20°C)	4		
	Z (-40°C) / Z(+20°C)	15	—	
Load Life	After applying rated voltage with specified ripple current for 2000 hours at 105°C (the peak voltage shall not exceed the rated voltage), and then restored for 24 hours, capacitor shall meet the following requirement:			
	Capacitance change	Within ±20% of the initial value.		
	Dissipation factor	Not more than 200% of the initial specified value.		
	Leakage current	Not more than the initial specified value.		
Shelf Life	After storing for 1000 hours at 105°C, U _r to be applied for 30 minutes and then restored for 24 hours, capacitor shall meet the following requirement:			
	Capacitance change	Within ±20% of the initial value.		
	Dissipation factor	Not more than 200% of the initial specified value.		
	Leakage current	Not more than the initial specified value.		
Standard	JIS C 5101-4			

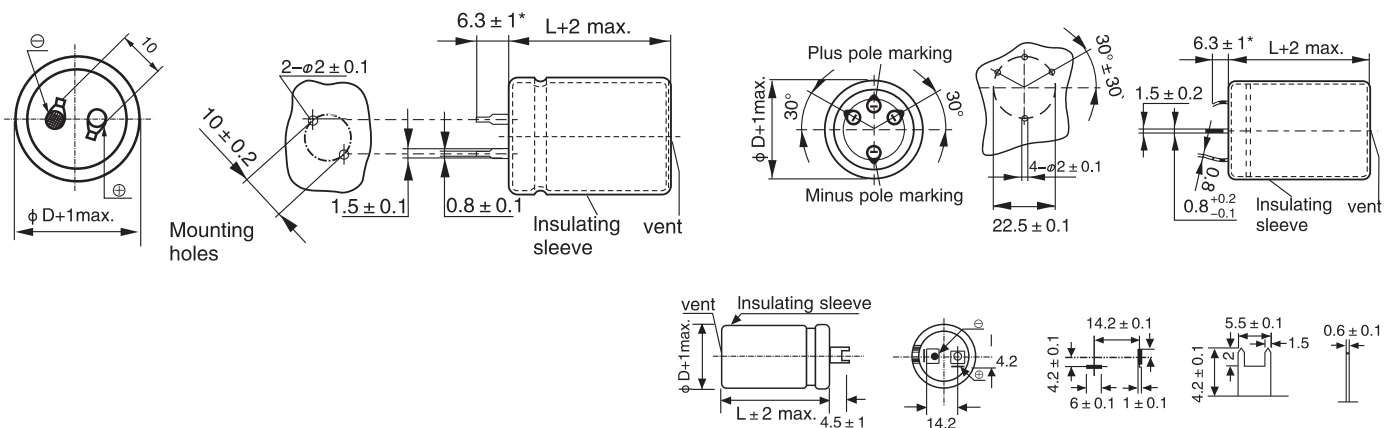
■ Ripple current correction coefficient

T(°C)	40	55	70	85	105
Coefficient	2.7	2.5	2.1	1.7	1.0

U _r (V) \ F(Hz)	50(60)	120	1K	10K	≤20K
	≤100	0.95	1.00	1.10	1.15
160-250	0.87	1.00	1.11	1.18	1.20
≥350	0.80	1.00	1.14	1.14	1.20

■ Drawing

Unit : mm



*:Shorter terminal is : 4.0±0.5mm

LKG SERIES

■ LKG Products Table

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 105°C,120Hz (Arms)	Max ESR 20°C,120Hz (mΩ)	ESR(typ.) 20°C,120Hz (mΩ)	Part number
16 1C (20)	6800	22*25	0.50	1.63	100	70	LKG1C682MP025K
	10000	22*30	0.50	2.00	70	50	LKG1C103MP030K
		25*25	0.50	2.00	70	50	LKG1C103MQ025K
	12000	22*35	0.50	2.30	60	40	LKG1C123MP035K
		25*30	0.50	2.30	60	40	LKG1C123MQ030K
		30*25	0.50	2.40	60	40	LKG1C123MR025K
	15000	22*40	0.50	2.66	45	35	LKG1C153MP040K
		25*35	0.50	2.70	45	35	LKG1C153MQ035K
	18000	22*45	0.50	3.00	40	30	LKG1C183MP045K
		25*40	0.50	3.05	40	30	LKG1C183MQ040K
		30*30	0.50	3.10	40	30	LKG1C183MR030K
	22000	35*25	0.50	3.10	40	30	LKG1C183MS025K
		25*45	0.50	3.41	30	22	LKG1C223MQ045K
	27000	30*35	0.50	3.40	30	22	LKG1C223MR035K
		25*50	0.50	3.82	25	20	LKG1C273MQ050K
		30*40	0.50	3.83	25	20	LKG1C273MR040K
	33000	35*30	0.50	3.80	25	20	LKG1C273MS030K
		30*45	0.50	4.30	20	15	LKG1C333MR045K
		35*35	0.50	4.31	20	15	LKG1C333MS035K
	39000	30*50	0.50	4.80	20	15	LKG1C393MR050K
35*40		0.50	4.76	20	15	LKG1C393MS040K	
47000	35*45	0.50	5.30	15	12	LKG1C473MS045K	
25 1E (32)	4700	22*25	0.40	1.60	120	80	LKG1E472MP025K
	6800	22*30	0.40	1.95	80	55	LKG1E682MP030K
		25*25	0.40	1.94	80	55	LKG1E682MQ025K
	8200	22*35	0.40	2.16	65	45	LKG1E822MP035K
		25*30	0.40	2.18	65	45	LKG1E822MQ030K
		30*25	0.40	2.30	65	45	LKG1E822MR025K
	10000	22*40	0.40	2.43	55	40	LKG1E103MP040K
		25*35	0.40	2.50	55	40	LKG1E103MQ035K
	12000	25*40	0.40	2.75	45	35	LKG1E123MQ040K
		30*30	0.40	2.73	45	35	LKG1E123MR030K
		35*25	0.40	2.81	45	35	LKG1E123MS025K
	15000	25*45	0.40	3.18	35	25	LKG1E153MQ045K
		30*35	0.40	3.14	35	25	LKG1E153MR035K
		35*30	0.40	3.24	35	25	LKG1E153MS030K
	18000	25*50	0.40	3.56	30	22	LKG1E183MQ050K
		30*40	0.40	3.56	30	22	LKG1E183MR040K
	22000	30*45	0.40	4.28	25	20	LKG1E223MR045K
		35*35	0.40	4.00	25	20	LKG1E223MS035K
	27000	35*45	0.40	4.80	20	15	LKG1E273MS045K
	33000	35*50	0.40	5.40	20	12	LKG1E333MS050K
35 1V (44)	3300	22*25	0.35	1.45	150	100	LKG1V332MP025K
	3900	22*30	0.35	1.68	120	85	LKG1V392MP030K
	4700	25*25	0.35	1.81	100	70	LKG1V472MQ025K
	5600	22*35	0.35	2.03	90	60	LKG1V562MP035K
		25*30	0.35	2.06	90	60	LKG1V562MQ030K
		30*25	0.35	2.11	90	60	LKG1V562MR025K
	6800	22*40	0.35	2.30	70	50	LKG1V682MP040K
		25*35	0.35	2.32	70	50	LKG1V682MQ035K
	8200	22*50	0.35	2.68	60	40	LKG1V822MP050K
		25*40	0.35	2.61	60	40	LKG1V822MQ040K
		30*30	0.35	2.60	60	40	LKG1V822MR030K
	10000	25*45	0.35	2.94	50	35	LKG1V103MQ045K
		30*35	0.35	2.94	50	35	LKG1V103MR035K
	12000	25*50	0.35	3.27	40	30	LKG1V123MQ050K
		30*40	0.35	3.29	40	30	LKG1V123MR040K
		35*30	0.35	3.20	40	30	LKG1V123MS030K
	15000	30*45	0.35	3.75	35	25	LKG1V153MR045K
		35*35	0.35	3.70	35	25	LKG1V153MS035K
	18000	35*40	0.35	4.18	30	20	LKG1V183MS040K
	22000	35*50	0.35	7.94	25	16	LKG1V223MS050K



SNAP IN TYPE ALUMINUM ELECTROLYTIC ACPACITORS

LKG SERIES

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 105°C, 120Hz (Arms)	Max ESR 20°C, 120Hz (mΩ)	ESR(typ.) 20°C, 120Hz (mΩ)	Part number
50 1H (63)	1800	22*25	0.30	1.31	225	160	LKG1H182MP025K
	2200	22*30	0.30	1.46	185	130	LKG1H222MP030K
	2700	25*25	0.30	1.72	150	110	LKG1H272MQ025K
	3300	22*35	0.30	1.90	125	90	LKG1H332MP035K
		25*30	0.30	2.00	125	90	LKG1H332MQ030K
	3900	25*35	0.30	2.30	110	75	LKG1H392MQ035K
		30*25	0.30	2.20	110	75	LKG1H392MR025K
	4700	30*30	0.30	2.60	90	60	LKG1H472MR030K
		35*25	0.30	2.68	90	60	LKG1H472MS025K
	5600	22*50	0.30	2.90	80	50	LKG1H562MP050K
		25*40	0.30	2.82	80	50	LKG1H562MQ040K
		30*35	0.30	2.96	80	50	LKG1H562MR035K
	6800	30*40	0.30	3.40	60	45	LKG1H682MR040K
		35*30	0.30	3.32	60	45	LKG1H682MS030K
	8200	30*45	0.30	3.72	50	35	LKG1H822MR045K
		35*35	0.30	3.68	50	35	LKG1H822MS035K
10000	30*50	0.30	4.10	42	30	LKG1H103MR050K	
	35*40	0.30	4.07	42	30	LKG1H103MS040K	
12000	35*45	0.30	4.53	35	25	LKG1H123MS045K	
63 1J (79)	1200	22*25	0.20	1.27	225	160	LKG1J122MP025K
	1800	22*30	0.20	1.53	150	110	LKG1J182MP030K
		25*25	0.20	1.52	150	110	LKG1J182MQ025K
	2200	22*35	0.20	1.73	125	90	LKG1J222MP035K
		25*30	0.20	1.74	125	90	LKG1J222MQ030K
	2700	22*40	0.20	1.98	100	70	LKG1J272MP040K
		25*35	0.20	2.00	100	70	LKG1J272MQ035K
		30*25	0.20	1.94	100	70	LKG1J272MR025K
	3300	25*40	0.20	2.29	80	60	LKG1J332MQ040K
		30*30	0.20	2.23	80	60	LKG1J332MR030K
		35*25	0.20	2.42	80	60	LKG1J332MS025K
	3900	25*45	0.20	2.55	70	50	LKG1J392MQ045K
		30*35	0.20	2.55	70	50	LKG1J392MR035K
	4700	25*50	0.20	2.90	60	40	LKG1J472MQ050K
		30*40	0.20	2.90	60	40	LKG1J472MR040K
		35*30	0.20	2.82	60	40	LKG1J472MS030K
5600	30*45	0.20	3.29	50	35	LKG1J562MR045K	
	35*35	0.20	3.24	50	35	LKG1J562MS035K	
6800	30*50	0.20	3.74	40	30	LKG1J682MR050K	
	35*40	0.20	3.71	40	30	LKG1J682MS040K	
8200	35*45	0.20	4.18	35	25	LKG1J822MS045K	
10000	35*50	0.20	4.70	30	20	LKG1J103MS050K	
80 1K (100)	1000	22*25	0.20	1.25	270	190	LKG1K102MP025K
	1200	22*30	0.20	1.39	230	160	LKG1K122MP030K
		25*25	0.20	1.40	230	160	LKG1K122MQ025K
	1500	22*35	0.20	1.62	180	130	LKG1K152MP035K
		25*30	0.20	1.63	180	130	LKG1K152MQ030K
	1800	22*40	0.20	1.84	150	110	LKG1K182MP040K
		30*25	0.20	1.82	150	110	LKG1K182MR025K
	2200	25*35	0.20	2.00	125	90	LKG1K222MQ035K
		30*30	0.20	2.12	125	90	LKG1K222MR030K
		35*25	0.20	2.18	125	90	LKG1K222MS025K
	2700	25*45	0.20	2.24	100	70	LKG1K272MQ045K
		30*35	0.20	2.43	100	70	LKG1K272MR035K
	3300	25*50	0.20	2.78	80	60	LKG1K332MQ050K
		30*40	0.20	2.79	80	60	LKG1K332MR040K
		35*30	0.20	2.72	80	60	LKG1K332MS030K
	3900	30*45	0.20	3.12	70	50	LKG1K392MR045K
35*35		0.20	3.08	70	50	LKG1K392MS035K	
4700	30*50	0.20	3.57	60	40	LKG1K472MR050K	
	35*40	0.20	3.50	60	40	LKG1K472MS040K	
5600	35*45	0.20	3.88	50	35	LKG1K562MS045K	
6800	35*50	0.20	4.20	40	30	LKG1K682MS050K	

ENGLISH

LKG SERIES

Rated Voltage Code (V.DC)	Capacitance (μ F)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 105°C,120Hz (Arms)	Max ESR 20°C,120Hz (mΩ)	ESR(typ.) 20°C,120Hz (mΩ)	Part number
100 2A (125)	560	22*25	0.20	1.08	480	340	LKG2A561MP025K
	820	22*30	0.20	1.36	330	230	LKG2A821MP030K
		25*25	0.20	1.36	330	230	LKG2A821MQ025K
	1000	22*35	0.20	1.54	270	190	LKG2A102MP035K
		25*30	0.20	1.56	270	190	LKG2A102MQ030K
	1200	22*40	0.20	1.74	230	160	LKG2A122MP040K
		25*35	0.20	1.76	230	160	LKG2A122MQ035K
		30*25	0.20	1.72	230	160	LKG2A122MS025K
	1500	25*40	0.20	2.04	180	130	LKG2A152MQ040K
		30*30	0.20	2.01	180	130	LKG2A152MR030K
		35*25	0.20	2.08	180	130	LKG2A152MS025K
	1800	25*45	0.20	2.29	150	110	LKG2A182MQ045K
		30*35	0.20	2.28	150	110	LKG2A182MR035K
	2200	25*50	0.20	2.58	125	85	LKG2A222MQ050K
		30*40	0.20	2.60	125	85	LKG2A222MR040K
		35*30	0.20	2.52	125	85	LKG2A222MS030K
	2700	30*45	0.20	2.95	100	70	LKG2A272MR045K
		35*35	0.20	2.90	100	70	LKG2A272MS035K
	3300	30*50	0.20	3.33	80	60	LKG2A332MR050K
		35*40	0.20	3.32	80	60	LKG2A332MS040K
3900	35*45	0.20	3.70	70	50	LKG2A392MS045K	
4700	35*50	0.20	4.16	60	40	LKG2A472MS050K	
160 2C (200)	330	22*25	0.15	1.18	610	430	LKG2C331MP025K
	390	22*30	0.15	1.45	510	360	LKG2C391MP030K
	470	22*35	0.15	1.54	430	300	LKG2C471MP035K
		25*25	0.15	1.55	430	300	LKG2C471MQ025K
	560	22*40	0.15	1.65	355	250	LKG2C561MP040K
		25*30	0.15	1.74	355	250	LKG2C561MQ030K
	680	22*45	0.15	1.71	300	210	LKG2C681MP045K
		25*35	0.15	1.81	300	210	LKG2C681MQ035K
		30*25	0.15	1.83	300	210	LKG2C681MR025K
	820	25*40	0.15	1.98	245	170	LKG2C821MQ040K
		30*30	0.15	1.99	245	170	LKG2C821MR030K
	1000	25*45	0.15	2.04	200	140	LKG2C102MQ045K
		30*35	0.15	2.15	200	140	LKG2C102MR035K
	1200	25*50	0.15	2.15	170	120	LKG2C122MQ050K
		30*40	0.15	2.23	170	120	LKG2C122MR040K
		35*30	0.15	2.43	170	120	LKG2C122MS030K
	1500	30*45	0.15	2.56	135	95	LKG2C152MR045K
		35*35	0.15	2.56	135	95	LKG2C152MS035K
	1800	35*45	0.15	3.00	120	80	LKG2C182MS045K
	2200	35*50	0.15	3.14	100	70	LKG2C222MS050K
180 2K (225)	270	22*25	0.15	1.09	740	520	LKG2K271MP025K
	330	22*30	0.15	1.30	610	430	LKG2K331MP030K
	390	25*25	0.15	1.36	510	360	LKG2K391MQ025K
	470	22*35	0.15	1.51	430	300	LKG2K471MP035K
		25*30	0.15	1.63	430	300	LKG2K471MQ030K
	560	22*40	0.15	1.63	360	250	LKG2K561MP040K
		25*35	0.15	1.70	360	250	LKG2K561MQ035K
		30*25	0.15	1.68	360	250	LKG2K561MR025K
	680	25*40	0.15	1.74	300	210	LKG2K681MQ040K
		30*30	0.15	1.76	300	210	LKG2K681MR030K
		35*25	0.15	1.94	300	210	LKG2K681MS025K
	820	25*45	0.15	1.80	245	180	LKG2K821MQ045K
		30*35	0.15	1.86	245	180	LKG2K821MR035K
	1000	25*50	0.15	1.92	200	140	LKG2K102MQ050K
		30*40	0.15	2.03	200	140	LKG2K102MR040K
		35*30	0.15	2.18	200	140	LKG2K102MS030K
	1200	30*45	0.15	2.20	170	120	LKG2K122MR045K
		35*35	0.15	2.36	170	120	LKG2K122MS035K
	1500	30*50	0.15	2.38	140	100	LKG2K152MR050K
		35*40	0.15	2.58	140	100	LKG2K152MS040K
1800	35*45	0.15	2.68	120	80	LKG2K182MS045K	



SNAP IN TYPE ALUMINUM ELECTROLYTIC ACPACITORS

LKG SERIES

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 105°C, 120Hz (Arms)	Max ESR 20°C, 120Hz (mΩ)	ESR(typ.) 20°C, 120Hz (mΩ)	Part number
200 2D (250)	220	22*25	0.15	1.10	910	640	LKG2D221MP025K
	270	22*30	0.15	1.21	740	520	LKG2D271MP030K
	330	25*25	0.15	1.37	610	430	LKG2D331MQ025K
	390	22*35	0.15	1.42	510	360	LKG2D391MP035K
	470	22*40	0.15	1.52	425	300	LKG2D471MP040K
		25*30	0.15	1.48	425	300	LKG2D471MQ030K
		30*25	0.15	1.58	425	300	LKG2D471MR025K
	560	22*45	0.15	1.60	355	250	LKG2D561MP045K
		25*35	0.15	1.67	355	250	LKG2D561MQ035K
	680	22*50	0.15	1.70	300	210	LKG2D681MP050K
		25*40	0.15	1.81	300	210	LKG2D681MQ040K
		30*30	0.15	0.18	300	210	LKG2D681MR030K
	820	25*50	0.15	1.88	245	170	LKG2D821MQ050K
		30*35	0.15	2.00	245	170	LKG2D821MR035K
		35*30	0.15	2.08	245	170	LKG2D821MS030K
	1000	30*45	0.15	2.19	200	140	LKG2D102MR045K
		35*35	0.15	2.24	200	140	LKG2D102MS035K
	1200	30*50	0.15	2.23	170	120	LKG2D122MR050K
35*40		0.15	2.42	170	120	LKG2D122MS040K	
1500	35*45	0.15	2.60	140	100	LKG2D152MS045K	
1800	35*50	0.15	2.72	120	80	LKG2D182MS050K	
250 2E (300)	180	22*25	0.15	0.94	1110	780	LKG2E181MP025K
	220	22*30	0.15	1.11	910	640	LKG2E221MP030K
		25*25	0.15	1.17	910	640	LKG2E221MQ025K
	270	22*35	0.15	1.15	740	520	LKG2E271MP035K
	330	22*40	0.15	1.22	610	430	LKG2E331MP040K
		25*30	0.15	1.31	610	430	LKG2E331MQ030K
		30*25	0.15	1.31	610	430	LKG2E331MR025K
	390	22*45	0.15	1.28	510	360	LKG2E391MP045K
		25*35	0.15	1.43	510	360	LKG2E391MQ035K
	470	25*40	0.15	1.54	430	300	LKG2E471MQ040K
		30*30	0.15	1.38	430	300	LKG2E471MR030K
		35*25	0.15	1.40	430	300	LKG2E471MS025K
	560	25*45	0.15	1.60	360	250	LKG2E561MQ045K
		30*35	0.15	1.59	360	250	LKG2E561MR035K
		35*30	0.15	1.58	360	250	LKG2E561MS030K
	680	25*50	0.15	1.68	300	210	LKG2E681MQ050K
		30*40	0.15	1.78	300	210	LKG2E681MR040K
	820	30*45	0.15	1.84	245	170	LKG2E821MR045K
35*35		0.15	1.84	245	170	LKG2E821MS035K	
1000	30*50	0.15	1.87	200	140	LKG2E102MR050K	
	35*40	0.15	1.99	200	140	LKG2E102MS040K	
1200	35*45	0.15	2.12	170	120	LKG2E122MS045K	
350 2V (400)	82	22*30	0.15	0.60	2940	1620	LKG2V820MP030K
	100	25*25	0.15	0.70	1995	1100	LKG2V101MQ025K
	120	22*35	0.15	0.74	1660	920	LKG2V121MP035K
	150	22*40	0.15	0.79	1330	730	LKG2V151MP040K
		25*30	0.15	0.83	1330	730	LKG2V151MQ030K
		30*25	0.15	0.82	1330	730	LKG2V151MR025K
	180	22*45	0.15	0.81	1110	610	LKG2V181MP045K
		25*35	0.15	0.89	1110	610	LKG2V181MQ035K
		30*30	0.15	0.91	1110	610	LKG2V181MR030K
	220	22*50	0.15	0.93	910	500	LKG2V221MP050K
		25*40	0.15	0.99	910	500	LKG2V221MQ040K
		35*25	0.15	0.98	910	500	LKG2V221MS025K
	270	25*50	0.15	1.02	740	410	LKG2V271MQ050K
		30*35	0.15	1.06	740	410	LKG2V271MR035K
		35*30	0.15	1.02	740	410	LKG2V271MS030K
	330	30*45	0.15	1.18	610	340	LKG2V331MR045K
		35*35	0.15	1.18	610	340	LKG2V331MS035K
	390	30*50	0.15	1.28	510	285	LKG2V391MR050K
35*40		0.15	1.28	510	285	LKG2V391MS040K	
470	35*45	0.15	1.36	425	240	LKG2V471MS045K	
560	35*50	0.15	1.52	355	240	LKG2V561MS050K	

ENGLISH

LKG SERIES

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 105°C, 120Hz (Arms)	Max ESR 20°C, 120Hz (mΩ)	ESR(typ.) 20°C, 120Hz (mΩ)	Part number
400 2G (450)	68	22*25	0.15	0.47	2930	1525	LKG2G680MP025K
	82	25*25	0.15	0.65	2430	1265	LKG2G820MQ025K
	100	22*30	0.15	0.61	2000	1035	LKG2G101MP030K
	120	22*35	0.15	0.64	1660	865	LKG2G121MP035K
		25*30	0.15	0.70	1660	865	LKG2G121MQ030K
		30*25	0.15	0.79	1660	865	LKG2G121MR025K
	150	22*40	0.15	0.70	1330	690	LKG2G151MP040K
		25*35	0.15	0.73	1330	690	LKG2G151MQ035K
	180	25*40	0.15	0.83	1110	575	LKG2G181MQ040K
		30*30	0.15	0.83	1110	575	LKG2G181MR030K
		35*25	0.15	0.87	1110	575	LKG2G181MS025K
	220	25*45	0.15	0.88	910	475	LKG2G221MQ045K
		30*35	0.15	0.87	910	475	LKG2G221MR035K
	270	25*50	0.15	0.94	740	385	LKG2G271MQ050K
		30*40	0.15	0.95	740	385	LKG2G271MR040K
		35*30	0.15	0.92	740	385	LKG2G271MS030K
	330	30*45	0.15	1.11	610	315	LKG2G331MR045K
		35*35	0.15	1.14	610	315	LKG2G331MS035K
	390	30*50	0.15	1.16	510	265	LKG2G391MR050K
		35*40	0.15	1.27	510	265	LKG2G391MS040K
470	35*45	0.15	1.31	425	220	LKG2G471MS045K	
560	35*50	0.15	1.52	355	185	LKG2G561MS050K	
450 2W (500)	56	22*30	0.20	0.48	4740	2370	LKG2W560MP030K
	68	22*30	0.20	0.56	3910	1960	LKG2W680MP030K
		25*25	0.20	0.66	3910	1960	LKG2W680MQ025K
	82	22*35	0.20	0.65	3240	1620	LKG2W820MP035K
		25*30	0.20	0.63	3240	1620	LKG2W820MQ030K
	100	22*40	0.20	0.71	2655	1330	LKG2W101MP040K
		25*30	0.20	0.71	2655	1330	LKG2W101MQ030K
		30*25	0.20	0.78	2655	1330	LKG2W101MR025K
	120	22*45	0.20	0.73	2215	1110	LKG2W121MP045K
		25*35	0.20	0.73	2215	1110	LKG2W121MQ035K
	150	25*40	0.20	0.82	1770	885	LKG2W151MQ040K
		30*30	0.20	0.83	1770	885	LKG2W151MR030K
		35*25	0.20	0.86	1770	885	LKG2W151MS025K
	180	25*45	0.20	0.89	1475	740	LKG2W181MQ045K
		30*35	0.20	0.88	1475	740	LKG2W181MR035K
	220	25*50	0.20	0.96	1210	610	LKG2W221MQ050K
		30*40	0.20	0.98	1210	610	LKG2W221MR040K
		35*30	0.20	0.94	1210	610	LKG2W221MS030K
	270	30*45	0.20	1.15	990	500	LKG2W271MR045K
		35*35	0.20	1.16	990	500	LKG2W271MS035K
330	30*50	0.20	1.19	810	410	LKG2W331MR050K	
	35*40	0.20	1.29	810	410	LKG2W331MS040K	
390	35*45	0.20	1.36	685	340	LKG2W391MS045K	
470	35*50	0.20	1.54	565	290	LKG2W471MS050K	
500 2H (550)	39	22*30	0.20	0.37	6810	3410	LKG2H390MP030K
	47	22*35	0.20	0.44	5650	2830	LKG2H470MP035K
	56	22*40	0.20	0.49	4740	2370	LKG2H560MP040K
	68	22*45	0.20	0.56	3905	1960	LKG2H680MP045K
	82	25*40	0.20	0.63	3240	1620	LKG2H820MQ040K
	100	25*45	0.20	0.68	2660	1330	LKG2H101MQ045K
	120	25*50	0.20	0.79	2215	1110	LKG2H121MQ050K
		35*30	0.20	0.75	2215	1110	LKG2H121MS030K
	150	30*40	0.20	0.88	1770	890	LKG2H151MR040K
	180	30*50	0.20	1.03	1475	740	LKG2H181MR050K
	220	35*45	0.20	1.13	1210	610	LKG2H221MS045K
270	35*50	0.20	1.30	990	500	LKG2H271MS050K	

LKH SERIES (105°C 5000H)

- Compliant to the RoHS directive.
- 105°C 5000H long life and high ripple current series.
- Used in professional power supplies and frequency converters etc.



■ Specification

Item	Performance Characteristics	
	-40°C ~ +105°C	-25°C ~ +105°C
Operating range	-40°C ~ +105°C	-25°C ~ +105°C
Rated voltage range	16V ~ 100V	160V ~ 450V
Capacitance tolerance	±20% (20°C, 120Hz)	
Leakage current	1 ≤ 0.01CV (µA) or 1.5mA (Whichever is smaller) (20°C, after 5 minutes) C=Nominal capacitance (µF), V=Rated voltage (V)	
Dissipation factor (20°C, 120Hz)	U _r (V)	16 25 35 50 63 80 100 160~250 350~400 450
	tan δ	0.50 0.45 0.40 0.35 0.30 0.25 0.20 0.15 0.20 0.25
Stability at Low Temperature (Impedance ratio at 120Hz)	U _r (V)	16 ~ 100 160 ~ 250 315 ~ 450
	Z (-25°C) / Z(+20°C)	4 3 8
	Z (-40°C) / Z(+20°C)	15 —
Load Life	After applying rated voltage with specified ripple current for 5000 hours at 105°C (the peak voltage shall not exceed the rated voltage), and then restored for 24 hours, capacitor shall meet the following requirement:	
	Capacitance change	Within ±20% of the initial value.
	Dissipation factor	Not more than 200% of the initial specified value.
	Leakage current	Not more than the initial specified value.
Shelf Life	After storing for 1000 hours at 105°C, U _r to be applied for 30 minutes and then restored for 24 hours, capacitor shall meet the following requirement:	
	Capacitance change	Within ±20% of the initial value.
	Dissipation factor	Not more than 200% of the initial specified value.
	Leakage current	Not more than the initial specified value.
Standard	JIS C 5101-4	

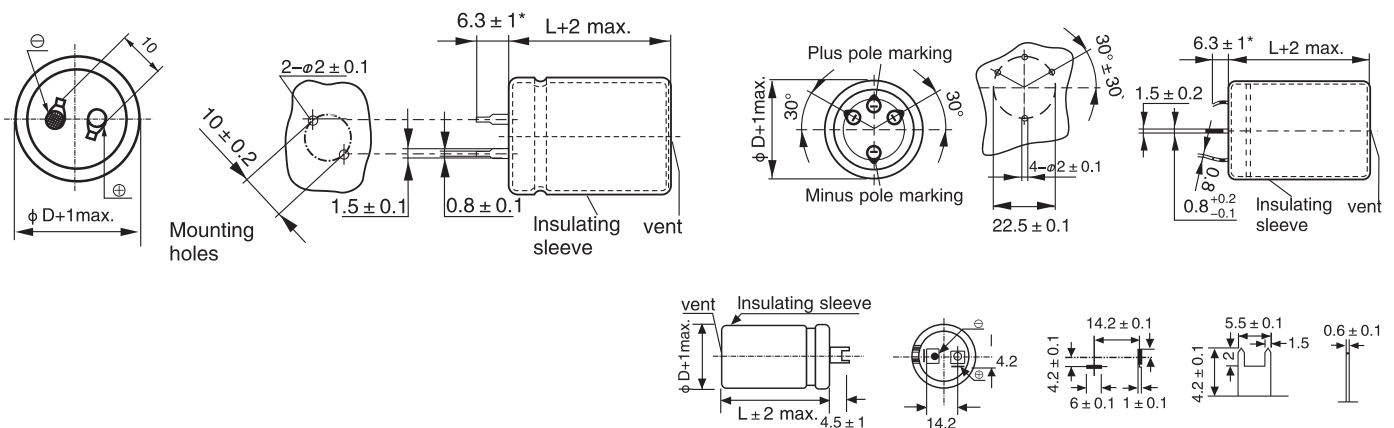
■ Ripple current correction coefficient

T(°C)	40	55	70	85	105
Coefficient	2.7	2.5	2.1	1.7	1.0

U _r (V) \ F(Hz)	50(60)	120	500	1K	≤10K
	16-100	0.90	1.00	1.05	1.10
160-250	0.80	1.00	1.20	1.30	1.50
315-450	0.80	1.00	1.20	1.25	1.40

■ Drawing

Unit : mm



*:Shorter terminal is : 4.0±0.5mm

LKH SERIES

■ LKH Products Table

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 105°C,120Hz (Arms)	Max ESR 20°C,120Hz (mΩ)	ESR(typ.) 20°C,120Hz (mΩ)	Part number
16 1C (20)	5600	22*30	0.50	1.49	120	85	LKH1C562MP030K
	6800	22*30	0.50	1.66	100	70	LKH1C682MP030K
	8200	25*30	0.50	1.71	90	60	LKH1C822MQ030K
	10000	22*35	0.50	2.10	70	50	LKH1C103MP035K
		25*30	0.50	2.08	70	50	LKH1C103MQ030K
	12000	22*40	0.50	2.36	60	40	LKH1C123MP040K
		25*35	0.50	2.38	60	40	LKH1C123MQ035K
		30*30	0.50	2.35	60	40	LKH1C123MR030K
	15000	22*45	0.50	2.67	45	35	LKH1C153MP045K
		25*40	0.50	2.72	45	35	LKH1C153MQ040K
	18000	25*45	0.50	3.06	40	30	LKH1C183MQ045K
		30*35	0.50	3.03	40	30	LKH1C183MR035K
		35*30	0.50	3.10	40	30	LKH1C183MS030K
	22000	25*50	0.50	3.40	30	22	LKH1C223MQ050K
		30*40	0.50	3.46	30	22	LKH1C223MR040K
	27000	30*45	0.50	3.89	25	18	LKH1C273MR045K
		35*35	0.50	3.86	25	18	LKH1C273MS035K
	33000	30*50	0.50	4.33	20	15	LKH1C333MR050K
		35*40	0.50	4.33	20	15	LKH1C333MS040K
	39000	35*45	0.50	4.96	18	13	LKH1C393MS045K
47000	35*50	0.50	5.49	15	11	LKH1C473MS050K	
56000	35*50	0.50	5.38	15	9	LKH1C563MS050K	
25 1E (32)	3900	22*25	0.45	1.32	160	110	LKH1E392M 025K
	4700	22*30	0.45	1.56	130	90	LKH1E472MP030K
	5600	22*35	0.45	1.78	110	75	LKH1E562MP035K
		25*25	0.45	1.77	110	75	LKH1E562MQ025K
	6800	22*40	0.45	2.02	90	65	LKH1E682MP040K
		25*30	0.45	1.89	90	65	LKH1E682MQ030K
	8200	22*45	0.45	2.28	75	55	LKH1E822MP045K
		25*35	0.45	2.18	75	55	LKH1E822MQ035K
		30*30	0.45	2.23	75	55	LKH1E822MR030K
	10000	22*50	0.45	2.56	60	45	LKH1E103MP050K
		25*40	0.45	2.54	60	45	LKH1E103MQ040K
	12000	25*45	0.45	2.79	50	35	LKH1E123MQ045K
		30*35	0.45	2.72	50	35	LKH1E123MS035K
		35*30	0.45	2.76	50	35	LKH1E123MR030K
	15000	30*40	0.45	3.13	40	30	LKH1E153MR040K
	18000	30*45	0.45	3.52	35	25	LKH1E183MR045K
22000	30*50	0.45	3.93	30	20	LKH1E223MR050K	
	35*40	0.45	3.95	30	20	LKH1E223MS040K	
27000	35*50	0.45	4.73	25	18	LKH1E273MS050K	
35 1V (44)	2700	22*25	0.40	1.30	200	140	LKH1V272MP025K
	3300	22*30	0.40	1.55	170	120	LKH1V332MP030K
	3900	22*35	0.40	1.77	140	95	LKH1V392MP035K
		25*25	0.40	1.76	140	95	LKH1V392MQ025K
	4700	22*40	0.40	2.02	120	80	LKH1V472MP040K
		25*30	0.40	1.98	120	80	LKH1V472MQ030K
	5600	22*45	0.40	2.26	100	70	LKH1V562MP045K
		25*35	0.40	2.18	100	70	LKH1V562MQ035K
		30*30	0.40	2.12	100	70	LKH1V562MR030K
	6800	22*50	0.40	2.50	80	55	LKH1V682MP050K
		25*40	0.40	2.46	80	55	LKH1V682MQ040K
	8200	25*45	0.40	2.81	65	45	LKH1V821MQ045K
		30*35	0.40	2.70	65	45	LKH1V821MR035K
	10000	30*40	0.40	3.04	55	40	LKH1V103MR040K
		35*30	0.40	2.80	55	40	LKH1V103MS030K
	12000	30*45	0.40	3.39	45	35	LKH1V123MR045K
		35*35	0.40	3.30	45	35	LKH1V123MS035K
	15000	35*40	0.40	3.38	35	25	LKH1V153MS040K
18000	35*45	0.40	4.40	30	21	LKH1V183MS045K	



SNAP IN TYPE ALUMINUM ELECTROLYTIC ACPACITORS

LKH SERIES

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 105°C, 120Hz (Arms)	Max ESR 20°C, 120Hz (mΩ)	ESR(typ.) 20°C, 120Hz (mΩ)	Part number
50 1H (63)	1500	22*25	0.35	1.21	310	220	LKH1H152MP025K
	2200	22*30	0.35	1.53	215	150	LKH1H222MP030K
	2700	25*30	0.35	1.77	175	120	LKH1H272MQ030K
	3300	22*40	0.35	1.92	145	100	LKH1H332MP040K
		30*25	0.35	1.92	145	100	LKH1H332MR025K
	3900	25*40	0.35	2.23	120	85	LKH1H392MQ040K
		30*30	0.35	2.20	120	85	LKH1H392MR030K
	4700	25*45	0.35	2.46	100	70	LKH1H472MQ045K
	5600	30*40	0.35	2.72	85	60	LKH1H562MR040K
		35*30	0.35	2.59	85	60	LKH1H562MS030K
	6800	30*45	0.35	3.02	70	50	LKH1H682MR045K
		35*35	0.35	2.92	70	50	LKH1H682MS035K
	8200	30*50	0.35	3.63	60	40	LKH1H822MR050K
		35*40	0.35	3.37	60	40	LKH1H822MS040K
10000	35*45	0.35	3.80	50	35	LKH1H103MS045K	
12000	35*50	0.35	4.07	40	30	LKH1H123MS050K	
63 1J (79)	1500	25*30	0.30	1.42	270	190	LKH1J152MQ030K
	1800	22*35	0.30	1.63	230	160	LKH1J182MP035K
	2200	22*40	0.30	1.86	185	130	LKH1J222MP040K
		30*25	0.30	1.81	185	130	LKH1J222MR025K
	2700	25*40	0.30	2.04	150	110	LKH1J272MQ040K
		30*30	0.30	2.02	150	110	LKH1J272MR030K
	3300	25*45	0.30	2.39	125	85	LKH1J332MQ045K
	3900	30*35	0.30	2.47	110	75	LKH1J392MR035K
		35*30	0.30	2.32	110	75	LKH1J392MS030K
	4700	30*45	0.30	2.85	90	60	LKH1J472MR045K
		35*35	0.30	2.78	90	60	LKH1J472MS035K
	5600	30*50	0.30	3.28	75	50	LKH1J562MR050K
		35*40	0.30	3.20	75	50	LKH1J562MS040K
	6800	35*45	0.30	3.62	60	60	LKH1J682MS045K
8200	35*50	0.30	3.95	50	35	LKH1J822MS050K	
80 1K (100)	820	22*25	0.25	1.10	410	290	LKH1K821MP025K
	1000	22*30	0.25	1.29	335	235	LKH1K102MP030K
		25*25	0.25	1.39	280	195	LKH1K122MP035K
	1200	25*30	0.25	1.75	225	160	LKH1K152MQ030K
		30*30	0.25	1.78	225	160	LKH1K152MR030K
	1800	22*45	0.25	1.92	185	130	LKH1K182MP045K
		25*35	0.25	1.86	185	130	LKH1K182MQ035K
	2200	25*45	0.25	2.22	155	110	LKH1K222MP045K
		30*35	0.25	2.08	155	110	LKH1K222MR035K
	2700	30*40	0.25	2.40	130	90	LKH1K272MR040K
		35*30	0.25	2.46	130	90	LKH1K272MS030K
	3300	30*40	0.25	2.70	110	70	LKH1K332MR040K
		35*35	0.25	2.61	110	70	LKH1K332MS035K
	3900	30*45	0.25	2.95	85	60	LKH1K392MR045K
35*40		0.25	3.01	85	60	LKH1K392MS040K	
4700	35*45	0.25	3.45	75	50	LKH1K472MS045K	
5600	35*50	0.25	3.73	60	45	LKH1K562MS050K	
100 2A (125)	560	22*25	0.20	1.01	480	335	LKH2A561MP025K
	820	22*35	0.20	1.34	330	230	LKH2A821MP035K
		25*25	0.20	1.28	330	230	LKH2A821MQ025K
	1000	22*40	0.20	1.58	265	190	LKH2A102MP040K
		25*35	0.20	1.56	265	190	LKH2A102MQ035K
	1200	22*45	0.20	1.76	225	160	LKH2A122MP045K
		25*40	0.20	1.79	225	160	LKH2A122MQ040K
	1500	22*50	0.20	2.00	180	130	LKH2A152MP050K
		25*45	0.20	2.06	180	130	LKH2A152MQ045K
	1800	30*35	0.20	2.20	150	110	LKH2A182MR035K
		35*30	0.20	2.16	150	110	LKH2A182MS030K
	2200	30*40	0.20	2.52	125	90	LKH2A222MR040K
		35*35	0.20	2.49	125	90	LKH2A222MS035K
	2700	30*45	0.20	2.86	100	70	LKH2A272MR045K
35*40		0.20	2.88	100	70	LKH2A272MS040K	
3300	35*45	0.20	3.25	80	60	LKH2A332MS045K	
3900	35*50	0.20	3.57	70	50	LKH2A392MS050K	
160 2C (200)	220	22*25	0.15	0.63	910	635	LKH2C221MP025K
	270	22*30	0.15	0.76	740	520	LKH2C271MP030K
		22*35	0.15	0.95	610	425	LKH2C331MP035K
	330	25*25	0.15	0.85	610	425	LKH2C331MQ025K
		25*30	0.15	0.97	510	360	LKH2C391MQ030K
	390	30*25	0.15	1.05	510	360	LKH2C391MR025K

ENGLISH

LKH SERIES

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 105°C, 120Hz (Arms)	Max ESR 20°C, 120Hz (mΩ)	ESR(typ.) 20°C, 120Hz (mΩ)	Part number
160 2C (200)	470	22*40	0.15	1.11	425	300	LKH2C471MP040K
		25*35	0.15	1.15	425	300	LKH2C471MQ035K
		30*30	0.15	1.18	425	300	LKH2C471MR030K
	560	22*45	0.15	1.27	355	250	LKH2C561RP045K
		22*50	0.15	1.44	300	210	LKH2C681MP050K
	680	25*40	0.15	1.44	300	210	LKH2C681MQ040K
		30*35	0.15	1.51	300	210	LKH2C681MR035K
		25*45	0.15	1.63	245	170	LKH2C821MQ045K
	820	30*40	0.15	1.67	245	170	LKH2C821MR040K
		35*30	0.15	1.63	245	170	LKH2C821MS030K
		30*45	0.15	1.90	200	140	LKH2C102MR045K
	1000	35*35	0.15	1.90	200	140	LKH2C102MS035K
		30*50	0.15	2.16	170	120	LKH2C122MR050K
	1200	35*40	0.15	2.23	170	120	LKH2C122MS040K
35*45		0.15	2.61	135	100	LKH2C152MS045K	
1500	35*50	0.15	2.98	115	80	LKH2C182MS050K	
180 2K (225)	220	22*25	0.15	0.63	910	635	LKH2K221MP025K
	270	22*30	0.15	0.76	740	520	LKH2K271MP030K
	330	22*35	0.15	0.91	610	520	LKH2K331MP035K
		25*30	0.15	0.91	610	425	LKH2K331MQ030K
	390	22*40	0.15	1.03	510	425	LKH2K391MP040K
		25*35	0.15	1.06	510	360	LKH2K391MQ035K
		30*25	0.15	1.03	510	360	LKH2K391MR025K
	470	22*45	0.15	1.18	425	360	LKH2K471MP045K
		30*30	0.15	1.18	425	300	LKH2K471MR030K
	560	22*50	0.15	1.33	355	300	LKH2K561MP050K
		25*40	0.15	1.33	355	250	LKH2K561MQ040K
		30*35	0.15	1.33	355	250	LKH2K561MR035K
	680	25*45	0.15	1.52	300	205	LKH2K681MQ045K
		35*30	0.15	1.49	300	205	LKH2K681MS030K
	820	25*50	0.15	1.72	245	170	LKH2K821MQ050K
		30*40	0.15	1.75	245	170	LKH2K821MR040K
		35*35	0.15	1.76	245	170	LKH2K821MS035K
	1000	30*45	0.15	2.02	200	140	LKH2K102MR045K
		35*40	0.15	2.08	200	140	LKH2K102MS040K
	1200	30*50	0.15	2.25	170	120	LKH2K122MR050K
		35*45	0.15	2.24	170	120	LKH2K122MS045K
	1500	35*50	0.15	2.77	135	95	LKH2K152MS050K
200 2D (250)	180	22*25	0.15	0.57	1110	780	LKH2D181MP025K
	220	22*30	0.15	0.72	910	640	LKH2D221MP030K
	270	22*35	0.15	0.84	740	520	LKH2D271MP035K
		25*25	0.15	0.77	740	520	LKH2D271MQ025K
	330	22*40	0.15	0.97	610	430	LKH2D331MP040K
		25*30	0.15	0.91	610	430	LKH2D331MQ030K
	390	25*35	0.15	1.07	510	360	LKH2D391MQ035K
		30*25	0.15	1.03	510	360	LKH2D391MR025K
		25*40	0.15	1.23	425	300	LKH2D471MQ040K
	470	30*30	0.15	1.18	425	300	LKH2D471MR030K
		25*45	0.15	1.40	355	250	LKH2D561MQ045K
	560	30*35	0.15	1.39	355	250	LKH2D561MR035K
		25*50	0.15	1.59	295	210	LKH2D681MQ050K
		30*40	0.15	1.61	295	210	LKH2D681MR040K
	680	35*30	0.15	1.50	295	210	LKH2D681MS030K
		30*45	0.15	1.86	245	170	LKH2D821MR045K
	820	35*35	0.15	1.76	245	170	LKH2D821MS035K
		30*50	0.15	2.12	200	140	LKH2D102MR050K
	1000	35*40	0.15	2.08	200	140	LKH2D102MS040K
		35*45	0.15	2.38	170	120	LKH2D122MS045K
	1200	35*50	0.15	2.77	140	100	LKH2D152MS050K
	250 2E (300)	150	22*25	0.15	0.52	1330	930
180		22*30	0.15	0.64	1110	780	LKH2E181MP030K
220		22*35	0.15	0.76	910	640	LKH2E221MP035K
		25*30	0.15	0.76	910	640	LKH2E221MQ030K
270		22*40	0.15	0.88	740	520	LKH2E271MP040K
		25*35	0.15	0.90	740	520	LKH2E271MQ035K
		30*25	0.15	0.85	740	520	LKH2E271MR025K
330		22*45	0.15	1.01	610	425	LKH2E331MP045K
		30*30	0.15	1.00	610	425	LKH2E331MR030K
390		22*50	0.15	1.14	510	360	LKH2E391MP050K
		25*40	0.15	1.14	510	360	LKH2E391MQ040K
		30*35	0.15	1.16	510	360	LKH2E391MR035K



SNAP IN TYPE ALUMINUM ELECTROLYTIC ACPACITORS

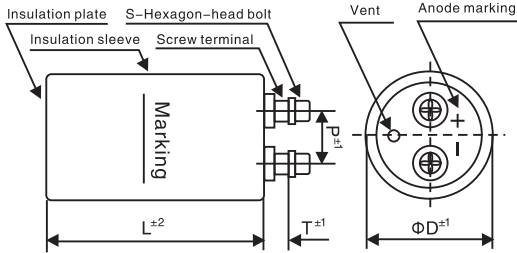
LKH SERIES

Rated Voltage Code (V.DC)	Capacitance (μ F)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 105°C, 120Hz (Arms)	Max ESR 20°C, 120Hz (mΩ)	ESR(typ.) 20°C, 120Hz (mΩ)	Part number
250 2E (300)	470	25*45	0.15	1.30	425	300	LKH2E471MQ045K
		35*30	0.15	1.25	425	300	LKH2E471MS030K
	560	25*50	0.15	1.46	355	250	LKH2E561MQ050K
		30*40	0.15	1.49	355	250	LKH2E561MR040K
		35*35	0.15	1.49	355	250	LKH2E561MS035K
	680	30*45	0.15	1.71	295	210	LKH2E681MR045K
		35*40	0.15	1.74	295	210	LKH2E681MS040K
	820	30*50	0.15	1.94	245	175	LKH2E821MR050K
	1000	35*45	0.15	2.21	200	140	LKH2E102MS045K
	350 2V (400)	68	22*25	0.20	0.34	3910	2735
82		22*30	0.20	0.41	3240	2270	LKH2V820MP030K
100		25*25	0.20	0.47	2660	1860	LKH2V101MQ025K
		22*35	0.20	0.52	2220	1550	LKH2V121MP035K
120		25*30	0.20	0.53	2220	1550	LKH2V121MQ030K
		30*25	0.20	0.53	2220	1550	LKH2V121MR025K
150		22*40	0.20	0.59	1770	1240	LKH2V151MP040K
		25*35	0.20	0.61	1770	1240	LKH2V151MQ035K
180		22*45	0.20	0.68	1480	1040	LKH2V181MP045K
		25*40	0.20	0.71	1480	1040	LKH2V181MQ040K
220		30*30	0.20	0.71	1480	1040	LKH2V181MR030K
		22*50	0.20	0.79	1210	850	LKH2V221MP050K
270		25*45	0.20	0.82	1210	850	LKH2V221MQ045K
		30*35	0.20	0.82	1210	850	LKH2V221MR035K
330		25*50	0.20	0.94	1000	690	LKH2V271MQ050K
		30*40	0.20	0.93	1000	690	LKH2V271MR040K
390		35*30	0.20	0.91	1000	690	LKH2V271MS030K
		30*45	0.20	1.06	815	570	LKH2V331MR045K
470		35*35	0.20	1.02	815	570	LKH2V331MS035K
		30*50	0.20	1.18	690	480	LKH2V391MR050K
560	35*40	0.20	1.14	690	480	LKH2V391MS040K	
680	35*45	0.20	1.26	570	400	LKH2V471MS045K	
820	35*50	0.20	1.40	480	350	LKH2V561MS050K	
400 2G (450)	68	22*30	0.20	0.38	3910	2735	LKH2G680MP030K
	82	25*25	0.20	0.41	3240	2270	LKH2G820MP025K
	100	22*35	0.20	0.46	2660	1860	LKH2G101MP035K
		25*30	0.20	0.48	2660	1860	LKH2G101MQ030K
	120	30*25	0.20	0.48	2660	1860	LKH2G101MR025K
		22*40	0.20	0.53	2220	1550	LKH2G121MP040K
	150	25*35	0.20	0.55	2220	1550	LKH2G121MQ035K
		30*30	0.20	0.56	2220	1550	LKH2G121MR030K
	180	22*50	0.20	0.63	1770	1240	LKH2G151MP050K
		25*40	0.20	0.65	1770	1240	LKH2G151MQ040K
	220	25*45	0.20	0.72	1480	1035	LKH2G181MQ045K
		30*35	0.20	0.74	1480	1035	LKH2G181MR035K
	270	25*50	0.20	0.79	1210	850	LKH2G221MQ050K
		30*40	0.20	0.85	1210	850	LKH2G221MR040K
	330	35*30	0.20	0.89	1210	850	LKH2G221MS030K
		30*45	0.20	0.98	985	690	LKH2G271MR045K
	390	35*35	0.20	0.96	985	690	LKH2G271MS035K
		30*50	0.20	1.12	810	570	LKH2G331MR050K
	470	35*40	0.20	1.12	810	570	LKH2G331MS040K
	560	35*45	0.20	1.27	690	480	LKH2G391MS045K
680	35*50	0.20	1.33	570	400	LKH2G471MS050K	
450 2W (500)	68	22*30	0.25	0.38	3910	2740	LKG2W680MP030K
	82	22*35	0.25	0.44	3240	2270	LKG2W820MP035K
		25*30	0.25	0.45	3240	2270	LKG2W820MQ030K
	100	30*25	0.25	0.46	3240	2270	LKG2W820MR025K
		22*40	0.25	0.50	2660	1860	LKG2W101MP040K
	120	25*35	0.25	0.52	2660	1860	LKG2W101MQ035K
		22*50	0.25	0.58	2220	1550	LKG2W121MP050K
	150	25*40	0.25	0.58	2220	1550	LKG2W121MQ040K
		30*30	0.25	0.58	2220	1550	LKG2W121MR030K
	180	25*45	0.25	0.66	1770	1240	LKG2W151MQ045K
		30*35	0.25	0.68	1770	1240	LKG2W151MR035K
	220	25*50	0.25	0.74	1480	1035	LKG2W181MQ050K
		30*40	0.25	0.77	1480	1035	LKG2W181MR040K
	270	35*30	0.25	0.77	1480	1035	LKG2W181MS030K
		30*45	0.25	0.88	1210	850	LKG2W221MR045K
	330	35*35	0.25	0.88	1210	850	LKG2W221MS035K
		30*50	0.25	0.99	990	690	LKG2W271MR050K
	390	35*40	0.25	1.02	990	690	LKG2W271MQ040K
	470	35*45	0.25	1.15	810	570	LKG2W331MS045K
	560	35*50	0.25	1.29	690	480	LKG2W391MS050K

ENGLISH

LPS SERIES (85°C 2000H)

- Compliant to the RoHS directive.
- 160WV ~ 600WV extra-high voltage.
- 85°C 2000H for inverters.



(unit: mm)

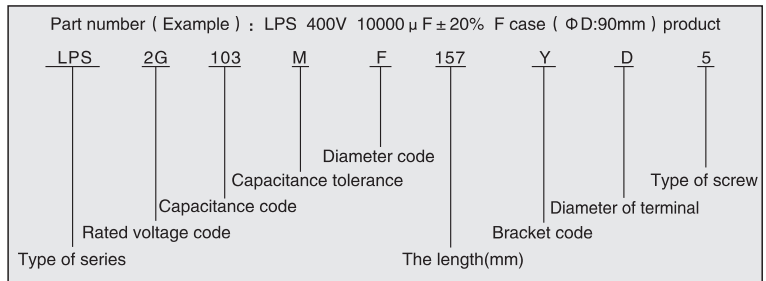
ΦD	P	S	T	Cap material
36	12.7	M5 × 10	6.0	Phenol
51	22.0	M5 × 10	5.5	Phenol
64	28.6	M5 × 10	5.5	Phenol
77	32.0	M5 × 10	4.5	Phenol
90	32.0	M5 × 10	4.0	Phenol
101	41.5	M8 × 16	10.0	Phenol

Product Specifications

Items	Specifications
Temperature range	-25°C ~ +85°C
Rated voltage	160 ~ 600V.DC
Capacitance tolerance	±20% (20°C, 120Hz)
Leakage current	0.01CV(μA) or 5mA, whichever is smaller [C=nominal capacitance (μ F) , V=rated voltage (V)]
Dissipation factor	Less than the value specified in the standard products table.
Permissible ripple current	As specified in the standard products table. (40°C, 120Hz)
High-temperature load	After the rated voltage with specified ripple current is applied at 85°C for 2000 hours Capacitance tolerance: ± 15% or less of the initial value Dissipation factor: 175% or less of the specified initial value Leakage current: Specified initial value or less
Standard	JIS C 5101-4

Ripple current correction coefficient

Temperature(°C)	40	60	70	85	
Coefficient	1.0	0.75	0.62	0.37	
Frequency(Hz)	50/60	120	300	1K	≥10K
Coefficient	0.7	1.0	1.1	1.3	1.4



LPS Products Table

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD × L(mm)	tan δ 20°C, 120Hz	Ripple current 40°C, 120Hz (Arms)	ESR(typ.) 20°C, 100Hz (mΩ)	Zmax 20°C, 10KHz (mΩ)	ESL(typ.) (nH)	Part number
160 2C (200)	3300	36*121	0.25	14.0	40	35	18	LPS2C332MA121I
	3900	51*75	0.25	14.4	37	28	21	LPS2C392MC075Y
	4700	51*80	0.25	15.8	30	25	21	LPS2C472MC080Y
	5600	51*96	0.25	19.0	26	23	21	LPS2C562MC096Y
	6800	51*96	0.25	21.0	22	22	21	LPS2C682MC096Y
	8200	51*115	0.25	24.7	18	19	21	LPS2C822MC115Y
	10000	64*96	0.25	28.0	15	16	22	LPS2C103MD096Y
	12000	64*96	0.25	30.6	12	15	22	LPS2C123MD096Y
	15000	64*130	0.25	38.6	11	12	22	LPS2C153MD130Y
		77*100	0.25	38.0	11	12	22	LPS2C153ME100Y
	18000	64*130	0.25	42.2	9	11	22	LPS2C183MD130Y
	22000	77*130	0.25	49.4	8	8	24	LPS2C223ME130Y
	27000	77*130	0.25	54.7	7	8	24	LPS2C273ME130Y
	33000	90*131	0.25	64.2	6	7	24	LPS2C333MF131Y
39000	90*157	0.25	75.3	5	7	24	LPS2C393MF157Y	
200 2D (250)	2200	36*100	0.25	10.6	68	60	18	LPS2D222MA100I
	2700	36*121	0.25	12.7	48	39	18	LPS2D272MA121I
	3300	51*80	0.25	13.3	45	35	21	LPS2D332MC080Y
	3900	54*75	0.25	14.4	37	30	21	LPS2D392MC075Y
	4700	51*96	0.25	17.4	30	27	21	LPS2D472MC096Y
	5600	51*115	0.25	20.4	26	25	21	LPS2D562MC115Y
	6800	51*130	0.25	23.7	21	20	21	LPS2D682MC130Y
	8200	64*96	0.25	25.4	17	18	22	LPS2D822MD096Y
	10000	64*96	0.25	28.0	14	14	22	LPS2D103MD096Y
	12000	77*96	0.25	32.6	12	14	24	LPS2D123ME096Y
	15000		0.25	39.0	10	13	24	LPS2D153ME096Y



SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

LPS SERIES

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 40°C,120Hz (Arms)	ESR(typ.) 20°C,100Hz (mΩ)	Zmax 20°C,10KHz (mΩ)	ESL(typ.) (nH)	Part number
200 2D (250)	18000	77*130	0.25	44.6	8	12	24	LPS2D183ME130Y
	22000	77*155	0.25	53.0	7	7	24	LPS2D223ME155Y
	27000	90*131	0.25	58.2	6	7	24	LPS2D273MF131Y
	33000	90*157	0.25	69.0	5	7	24	LPS2D333MF157Y
	36000	90*157	0.25	70.8	5	7	24	LPS2D363MF157Y
250 2E (300)	1500	36*100	0.25	8.7	56	50	18	LPS2E152MA100I
	1800	36*100	0.25	9.5	52	44	18	LPS2E182MA100I
	2200	51*75	0.25	10.8	50	40	21	LPS2E222MC075Y
	2700	51*75	0.25	12.0	41	36	21	LPS2E272MC075Y
	3300	51*96	0.25	14.6	36	35	21	LPS2E332MC096Y
	3900	51*115	0.25	17.0	31	30	21	LPS2E392MC115Y
	4700	64*100	0.25	19.2	25	23	22	LPS2E472MD100Y
	5600	64*100	0.25	21.0	21	21	22	LPS2E562MD100Y
	6800	64*115	0.25	24.7	18	18	22	LPS2E682MD115Y
	8200	64*115	0.25	27.1	15	16	22	LPS2E822MD115Y
	10000	64*130	0.25	31.5	12	14	22	LPS2E103MD130Y
		77*130	0.25	34.5	12	14	22	LPS2E103ME130Y
	12000	77*115	0.25	34.8	10	11	24	LPS2E123ME115Y
	15000	77*130	0.25	40.8	8	11	24	LPS2E153ME130Y
	18000	77*155	0.25	47.8	7	10	24	LPS2E183ME155Y
22000	90*157	0.25	56.5	6	8	24	LPS2E223MF157Y	
350 2V (400)	390	36*53	0.20	4.5	287	296	18	LPS2V391MA053I
	470	36*83	0.20	5.8	238	245	18	LPS2V471MA083I
	560	36*83	0.20	6.4	216	222	18	LPS2V561MA083I
	680	36*83	0.20	7.0	192	197	18	LPS2V681MA083I
	820	36*100	0.20	8.3	170	174	18	LPS2V821MA100I
	1000	36*100	0.20	9.2	131	135	18	LPS2V102MA100I
	1200	51*75	0.20	10.3	117	120	21	LPS2V122MC075Y
	1500	51*75	0.20	11.5	93	100	21	LPS2V182MC075Y
	1800	51*96	0.20	13.9	78	80	21	LPS2V182MC096Y
	2200	51*96	0.20	15.4	64	70	21	LPS2V222MC096Y
	2700	51*130	0.20	19.3	53	58	21	LPS2V272MC130Y
	3300	51*130	0.20	21.4	48	51	21	LPS2V332MC130Y
	3900	64*115	0.20	24.2	43	47	22	LPS2V392MD115Y
	4700	64*130	0.20	27.9	36	40	22	LPS2V472MD130Y
	5600	77*115	0.20	30.7	34	35	24	LPS2V562ME115Y
	6800	77*130	0.20	35.4	28	29	24	LPS2V682ME130Y
	8200	77*155	0.20	41.7	23	25	24	LPS2V822ME155Y
	10000	77*170	0.20	45.8	19	23	24	LPS2V103ME170Y
		90*157	0.20	49.0	19	23	24	LPS2V103MF157Y
	12000	90*157	0.20	54.1	16	21	24	LPS2V123MF157Y
15000	90*196	0.20	66.2	13	20	24	LPS2V153MF196Y	
18000	90*220	0.20	75.4	10	20	24	LPS2V183MF220Y	
22000	90*236	0.20	80.9	10	20	24	LPS2V223MF236Y	
400 2G (450)	330	36*53	0.20	4.1	428	440	18	LPS2G331MA053I
	390	36*83	0.20	5.3	362	372	18	LPS2G391MA083I
	470	36*83	0.20	5.8	301	310	18	LPS2G471MA083I
	560	36*83	0.20	6.4	253	260	18	LPS2G561MA083I
	680	36*100	0.20	7.6	209	214	18	LPS2G681MA100I
	820	36*100	0.20	8.3	173	177	18	LPS2G821MA100I
	1000	51*75	0.20	9.4	140	150	21	LPS2G102MC075Y
	1200	51*80	0.20	10.3	117	125	21	LPS2G122MC080Y
	1500	51*96	0.20	12.7	100	108	21	LPS2G152MC096Y
	1800	51*96	0.20	13.9	88	90	21	LPS2G182MC096Y
	2200	51*130	0.20	17.4	68	75	21	LPS2G222MC130Y
	2700	64*96	0.20	18.8	59	66	22	LPS2G272MD096Y
	3300	64*115	0.20	22.2	48	53	22	LPS2G332MD115Y
	3900	64*130	0.20	25.4	43	48	22	LPS2G392MD130Y
	4700	77*115	0.20	28.2	36	41	24	LPS2G472ME115Y
	5600	77*130	0.20	32.2	32	37	24	LPS2G562ME130Y
	6800	77*155	0.20	38.0	26	30	24	LPS2G682ME155Y
	8200	90*157	0.20	44.4	22	26	24	LPS2G822MF157Y
	10000	90*157	0.20	49.4	19	23	24	LPS2G103MF157Y
	12000	90*196	0.20	59.1	16	21	24	LPS2G123MF196Y
15000	90*236	0.20	71.1	15	21	24	LPS2G153MF236Y	

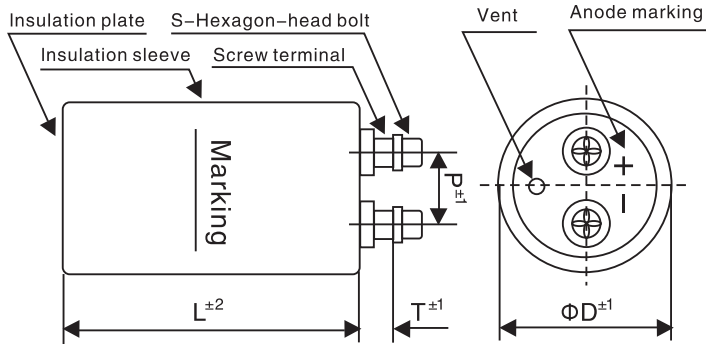
ENGLISH

LPS SERIES

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 40°C,120Hz (Arms)	ESR(typ.) 20°C,100Hz (mΩ)	Zmax 20°C,10KHz (mΩ)	ESL(typ.) (nH)	Part number
450 2W (500)	270	36*53	0.20	3.7	482	496	18	LPS2W271MA053I
	330	36*83	0.20	4.9	295	406	18	LPS2W331MA083I
	390	36*83	0.20	5.3	334	343	18	LPS2W391MA083I
	470	36*83	0.20	5.8	277	284	18	LPS2W471MA083I
	560	36*100	0.20	6.9	232	238	18	LPS2W561MA100I
	680	36*100	0.20	7.6	191	196	18	LPS2W681MA100I
	820	51*75	0.20	8.6	182	187	21	LPS2W821MC075Y
	1000	51*80	0.20	9.4	149	154	21	LPS2W102MC080Y
	1200	51*96	0.20	11.4	124	129	21	LPS2W122MC096Y
	1500	51*115	0.20	13.7	107	108	21	LPS2W152MC115Y
	1800	51*130	0.20	15.8	93	100	21	LPS2W182MC130Y
	2200	64*100	0.20	17.0	77	84	22	LPS2W222MD100Y
	2700	64*115	0.20	20.2	62	69	22	LPS2W272MD115Y
	3300	64*130	0.20	23.4	54	61	22	LPS2W332MD130Y
	3900	77*115	0.20	25.6	46	51	24	LPS2W392ME115Y
	4700	77*130	0.20	29.4	38	43	24	LPS2W472ME130Y
	5600	77*155	0.20	34.6	32	37	24	LPS2W562ME155Y
6800	90*157	0.20	40.5	28	33	24	LPS2W682MF157Y	
8200	90*157	0.20	44.6	25	30	24	LPS2W822MF157Y	
10000	90*196	0.20	53.9	20	25	24	LPS2W103MF196Y	
12000	90*236	0.20	63.8	16	22	24	LPS2W123MF236Y	
500 2H (550)	1200	51*115	0.20	17.0	112	120	21	LPS2H122MC115Y
	1500	51*130	0.20	19.9	90	96	21	LPS2H152MC130Y
	1800	64*115	0.20	22.7	75	80	22	LPS2H182MD115Y
	2200	64*130	0.20	26.1	61	65	22	LPS2H222MD130Y
	2700	77*115	0.20	29.0	50	53	24	LPS2H272ME115Y
	3300	77*130	0.20	33.7	45	48	24	LPS2H332ME130Y
	3900	77*155	0.20	39.2	38	41	24	LPS2H392ME155Y
	4700	77*170	0.20	44.9	34	37	24	LPS2H472ME170Y
	5600	77*195	0.20	51.6	28	31	24	LPS2H562ME195Y
		90*157	0.20	50.5	28	31	24	LPS2H562MF157Y
	6800	90*170	0.20	57.3	23	25	24	LPS2H682MF170Y
	8200	77*236	0.20	66.6	21	23	24	LPS2H822ME236Y
		90*196	0.20	66.4	21	23	24	LPS2H822MF196Y
	10000	90*236	0.20	55.5	17	19	24	LPS2H103MF236Y
101*195		0.20	79.4	17	19	33	LPS2H103MG195Y	
12000	101*237	0.20	85.7	16	18	33	LPS2H123MG237Y	
550 2Y (600)	1000	51*130	0.20	16.2	132	140	22	LPS2Y102MC130Y
	1500	64*130	0.20	21.9	93	100	23	LPS2Y152MD130Y
	2200	77*115	0.20	25.0	65	70	25	LPS2Y222ME115Y
	2700	77*130	0.20	28.9	54	60	25	LPS2Y272ME130Y
	3300	77*155	0.20	36.1	47	50	24	LPS2Y332ME155Y
	3900	77*170	0.20	43.5	40	45	24	LPS2Y392ME170Y
	4700	90*145	0.20	42.6	32	40	24	LPS2Y472MF145Y
	5600	90*196	0.20	55.1	26	30	24	LPS2Y562MF196Y
	6800	90*236	0.20	65.4	21	30	24	LPS2Y682MF236Y
	8200	101*237	0.20	74.0	19	25	24	LPS2Y822MG237Y
600 2S (650)	100	36*80	0.20	6.2	1582	1665	300	LPS2S101MA080I
	1200	64*96	0.20	21.1	151	160	22	LPS2S122MD096Y
	1500	64*115	0.20	25.4	135	140	22	LPS2S152MD115Y
	2200	77*115	0.20	32.7	102	105	24	LPS2S222ME115Y
	2700	77*130	0.20	33.0	83	86	24	LPS2S272ME130Y
	3300	77*170	0.20	46.5	58	61	24	LPS2S332ME170Y
	3900	77*195	0.20	53.5	49	52	24	LPS2S392ME195Y
	4700	90*157	0.20	57.0	41	43	24	LPS2S472MF157Y

LQX SERIES (85°C 5000H)

- Compliant to the RoHS directive.
- Long-life and high-ripple series for solar photovoltaic grid-connected inverter realized through adoption of high-reliability organic acid type electrolyte liquid and improvement of etched foil technology for high voltage and manufacturing process.



(unit: mm)

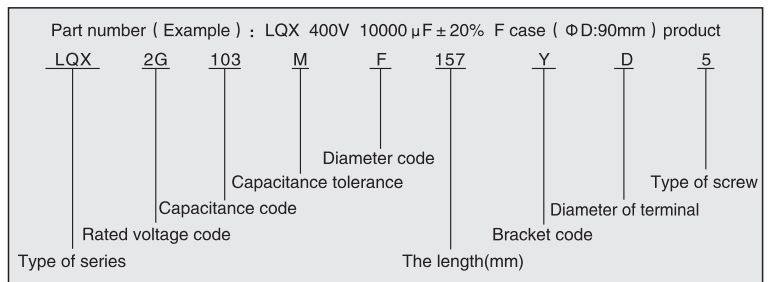
ΦD	P	S	T	Cap material
51	22.0	M5×10	5.5	Phenol
64	28.6	M5×10	5.5	Phenol
77	32.0	M5×10	4.5	Phenol
90	32.0	M5×10	4.0	Phenol

■ Product Specifications

Items	Specifications
Temperature range	-40°C ~ +85°C
Rated voltage	350 ~ 450V.DC
Capacitance tolerance	± 20% (20°C, 120Hz)
Leakage current	0.01CV(μ A) or 5mA, whichever is smaller [C=nominal capacitance (μ F) , V=rated voltage (V)]
Dissipation factor	Less than the value specified in the standard products table.
Permissible ripple current	As specified in the standard products table. (85°C, 120Hz)
High-temperature load	After the rated voltage with specified ripple current is applied at 85°C for 5000 hours Capacitance tolerance: ± 15% or less of the initial value Dissipation factor: 175% or less of the specified initial value Leakage current: Specified initial value or less
Standard	JIS C 5101-4

■ Ripple current correction coefficient

Temperature(°C)	40	60	85		
Coefficient	1.89	1.67	1.00		
Frequency(Hz)	50/60	120	300	1K	≥10K
Coefficient	0.7	1.0	1.1	1.3	1.4



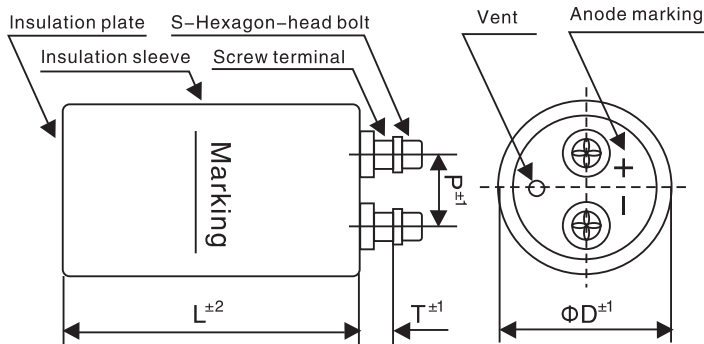
LQX SERIES

■ LQX Products Table

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 85°C,120Hz (Arms)	ESR(typ.) 20°C,100Hz (mΩ)	Zmax 20°C,10KHz (mΩ)	ESL(typ.) (nH)	Part number
350 2V (400)	1200	51*75	0.15	5.5	85	88	21	LQX2V122MC075Y
	1500	51*75	0.15	6.1	68	70	21	LQX2V152MC075Y
	1800	51*96	0.15	7.4	57	59	21	LQX2V182MC096Y
	2200	51*96	0.15	8.2	46	48	21	LQX2V222MC096Y
	2700	51*130	0.15	10.2	38	40	21	LQX2V272MC130Y
	3300	51*130	0.15	11.3	30	32	21	LQX2V332MC130Y
	3900	64*115	0.15	12.8	26	28	22	LQX2V392MD115Y
	4700	64*130	0.15	14.8	21	22	22	LQX2V472MD130Y
	5600	64*155	0.15	17.3	18	19	22	LQX2V562MD155Y
		77*115	0.15	16.3	18	19	24	LQX2V562ME115Y
	6800	64*195	0.15	21.1	15	15	22	LQX2V682MD195Y
		77*130	0.15	18.8	15	15	24	LQX2V682ME130Y
	8200	77*155	0.15	22.1	12	15	24	LQX2V822ME155Y
	10000	90*157	0.15	25.9	10	15	24	LQX2V103MF157Y
	12000	90*157	0.15	28.4	8	13	24	LQX2V123MF157Y
	15000	90*196	0.15	34.6	7	10	24	LQX2V153MF196Y
18000	90*236	0.15	41.1	7	10	24	LQX2V183MF236Y	
400 2G (450)	1000	51*75	0.15	5.0	102	105	21	LQX2G102MC075Y
	1200	51*75	0.15	5.5	85	88	21	LQX2G122MC075Y
	1500	51*96	0.15	6.7	68	70	21	LQX2G152MC096Y
	1800	51*96	0.15	7.4	57	58	21	LQX2G182MC096Y
	2200	51*130	0.15	9.2	46	48	21	LQX2G222MC130Y
	2700	64*96	0.15	9.9	38	40	22	LQX2G272MD096Y
	3300	64*115	0.15	11.8	30	32	22	LQX2G332MD115Y
	3900	64*130	0.15	13.5	26	28	22	LQX2G392MD130Y
	4700	64*155	0.15	15.9	21	22	22	LQX2G472MD155Y
		77*115	0.15	14.9	21	22	24	LQX2G472ME115Y
	5600	64*195	0.15	19.1	18	19	22	LQX2G562MD195Y
		77*130	0.15	17.0	18	19	24	LQX2G562ME130Y
	6800	77*155	0.15	20.2	15	15	24	LQX2G682ME155Y
	8200	90*157	0.15	23.5	12	15	24	LQX2G822MF157Y
	10000	90*157	0.15	25.9	10	15	24	LQX2G103MF157Y
	12000	90*196	0.15	31.0	8	13	24	LQX2G123MF196Y
15000	90*236	0.15	37.5	8	10	24	LQX2G153MF236Y	
450 2W (500)	1000	51*75	0.15	5.0	102	105	21	LQX2W102MC075Y
	1200	51*96	0.15	6.0	85	88	21	LQX2W122MC096Y
	1500	51*115	0.15	7.2	68	70	21	LQX2W152MC115Y
	1800	51*130	0.15	8.3	56	58	21	LQX2W182MC130Y
	2200	64*96	0.15	9.0	46	48	22	LQX2W222MD096Y
	2700	64*115	0.15	10.7	38	40	22	LQX2W272MD115Y
	3300	64*130	0.15	12.4	30	35	22	LQX2W332MD130Y
	3900	64*155	0.15	14.5	27	32	22	LQX2W392MD155Y
		77*115	0.15	13.6	27	32	24	LQX2W392ME115Y
	4700	64*195	0.15	17.5	21	21	22	LQX2W472MD195Y
		77*130	0.15	15.6	21	21	24	LQX2W472ME130Y
	5600	77*155	0.15	18.3	20	20	24	LQX2W562ME155Y
	6800	90*157	0.15	21.4	18	18	24	LQX2W682MF157Y
	8200	90*157	0.15	23.5	15	15	24	LQX2W822MF157Y
	10000	90*196	0.15	28.3	12	15	24	LQX2W103MF196Y
	12000	90*236	0.15	33.6	9	12	24	LQX2W123MF236Y

LGS SERIES (105°C 2000H)

- Compliant to the RoHS directive.
- 25WV ~ 400WV Standard products 2000H at 105°C.



(unit: mm)

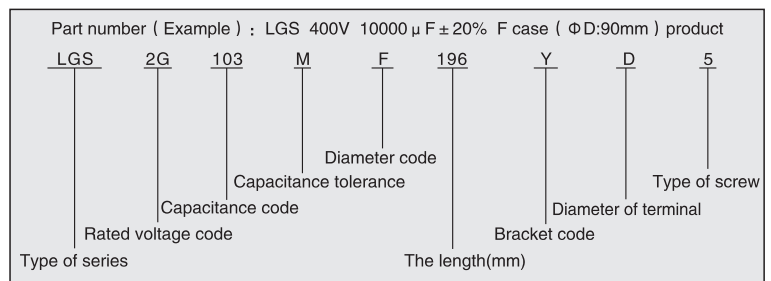
ΦD	P	S	T	Cap material
36	12.7	M5 × 10	6.0	Phenol
51	22.0	M5 × 10	5.5	Phenol
64	28.6	M5 × 10	5.5	Phenol
77	32.0	M5 × 10	4.5	Phenol
90	32.0	M5 × 10	4.0	Phenol

■ Product Specifications

Items	Specifications
Temperature range	-40°C ~ +105°C
Rated voltage	25 ~ 450V.DC
Capacitance tolerance	± 20% (20°C, 120Hz)
Leakage current	0.01CV(μ A) or 5mA, whichever is smaller or less [C=nominal capacitance (μ F) , V=rated voltage (V)]
Dissipation factor	Less than the value specified in the standard products table.
Permissible ripple current	As specified in the standard products table. (105°C, 120Hz)
High-temperature load	After the rated voltage with specified ripple current is applied at 105°C for 2000 hours Capacitance tolerance: ± 15% or less of the initial value Dissipation factor: 175% or less of the specified initial value Leakage current: Specified initial value or less
Standard	JIS C 5101-4

■ Ripple current correction coefficient

Temperature(°C)	40	55	70	85	105	
Coefficient	250WV under	4.9	3.9	3.0	1.8	1.0
	400WV	3.8	3.3	2.5	2.0	1.0
Frequency(Hz)	50/60	120	300	1K	≥10K	
Coefficient	0.8	1.0	1.1	1.3	1.4	





■ LGS Products Table

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 105°C, 120Hz (Arms)	ESR(typ.) 20°C, 100Hz (mΩ)	Zmax 20°C, 10KHz (mΩ)	ESL(typ.) (nH)	Part number
25 1E (32)	10000	36*53	0.35	2.9	32	30	18	LGS1E103MA053I
	15000	36*83	0.35	4.2	27	27	18	LGS1E153MA083I
	22000	36*83	0.35	5.1	22	23	18	LGS1E223MA083I
	33000	36*100	0.40	6.3	15	16	18	LGS1E333MA100I
	47000	51*75	0.40	8.0	10	11	21	LGS1E473MC075Y
	68000	51*115	0.50	10.0	7	8	21	LGS1E683MC115Y
	100000	64*96	0.60	11.3	6	7	22	LGS1E104MD096Y
	150000	64*115	0.80	12.9	6	7	22	LGS1E154MD115Y
	220000	77*115	1.00	14.8	4	5	24	LGS1E224ME115Y
330000	90*131	1.00	19.9	4	5	24	LGS1E334MF131Y	
35 1V (44)	6800	36*53	0.30	2.6	42	37	18	LGS1V682MA053I
	10000	36*83	0.30	3.7	29	31	18	LGS1V103MA083I
	15000	36*83	0.30	4.5	19	20	18	LGS1V153MA083I
	22000	36*100	0.35	5.5	14	15	18	LGS1V223MA100I
	33000	51*75	0.40	6.7	12	13	21	LGS1V333MC075Y
	47000	51*96	0.45	8.1	8	9	21	LGS1V473MC096Y
	68000	51*115	0.50	10.0	7	8	21	LGS1V683MC115Y
	100000	64*115	0.60	12.1	6	7	22	LGS1V104MD115Y
	150000	77*115	0.70	13.8	5	7	24	LGS1V154ME115Y
220000	90*131	0.70	17.6	5	7	24	LGS1V224MF131Y	
50 1H (63)	3300	36*53	0.20	2.2	90	80	18	LGS1H332MA053I
	4700	36*53	0.25	3.3	64	58	18	LGS1H472MA053I
	6800	36*83	0.25	3.4	44	39	18	LGS1H682MA083I
	10000	36*83	0.25	4.1	30	28	18	LGS1H103MA083I
	15000	36*100	0.30	4.9	20	20	18	LGS1H153MA100I
	22000	51*75	0.35	5.9	14	15	21	LGS1H223MC075Y
	33000	51*115	0.40	7.8	13	14	21	LGS1H333MC115Y
	47000	64*96	0.40	9.5	11	12	22	LGS1H473MD096Y
	68000	64*115	0.45	11.6	8	9	22	LGS1H683MD115Y
	100000	77*115	0.50	14.1	6	7	24	LGS1H104ME115Y
	150000	90*131	0.50	18.9	5	7	24	LGS1H154MF131Y
63 1J (79)	2200	36*53	0.15	2.1	95	87	18	LGS1J222MA053I
	3300	36*53	0.20	2.2	63	58	18	LGS1J332MA053I
	4700	36*83	0.20	3.1	54	50	18	LGS1J472MA083I
	6800	36*83	0.20	3.7	38	35	18	LGS1J682MA083I
	10000	36*100	0.25	4.4	28	28	18	LGS1J103MA100I
	15000	51*75	0.25	5.7	21	22	21	LGS1J153MC075Y
	22000	51*96	0.30	6.8	13	14	21	LGS1J223MC096Y
	33000	64*96	0.30	9.2	10	11	22	LGS1J333MD096Y
	47000	64*115	0.35	10.9	8	9	22	LGS1J473MD115Y
	68000	77*115	0.40	13.0	7	8	24	LGS1J683ME115Y
100000	90*131	0.40	17.2	7	8	24	LGS1J104MF131Y	
80 1K (100)	2200	36*53	0.15	2.1	68	63	18	LGS1K222MA053I
	3300	36*83	0.15	3.0	45	42	18	LGS1K332MA083I
	4700	36*83	0.15	3.6	32	30	18	LGS1K472MA083I
	6800	36*100	0.20	4.0	22	23	18	LGS1K682MA100I
	10000	51*75	0.20	5.2	15	16	21	LGS1K103MC075Y
	15000	51*96	0.25	6.2	10	11	21	LGS1K153MC096Y
	22000	64*96	0.25	8.2	9	10	22	LGS1K223MD096Y
	33000	77*96	0.30	9.7	7	7	24	LGS1K333ME096Y
	47000	77*115	0.30	12.5	6	7	24	LGS1K473ME115Y
68000	90*131	0.30	16.4	4	7	24	LGS1K683MF131Y	
100 2A (125)	1000	36*53	0.15	1.4	112	100	18	LGS2A102MA053I
	1500	36*53	0.15	1.7	75	67	18	LGS2A152MA053I
	2200	36*83	0.15	2.5	51	47	18	LGS2A222MA083I
	3300	36*83	0.15	3.0	34	32	18	LGS2A332MA083I
	4700	36*100	0.15	3.9	24	24	18	LGS2A472MA100I
	6800	51*75	0.15	5.0	19	20	21	LGS2A682MC075Y
	10000	51*96	0.15	6.5	13	14	21	LGS2A103MC096Y
	15000	64*96	0.20	7.6	11	12	22	LGS2A153MD096Y
	22000	77*96	0.20	9.7	8	9	24	LGS2A223ME096Y
	33000	77*130	0.25	11.8	6	7	24	LGS2A333ME130Y
47000	90*131	0.25	15.0	5	7	24	LGS2A473MF131Y	

ENGLISH

LGS SERIES

Rated Voltage Code (V.DC)	Capacitance (μF)	Case size ΦD×L(mm)	tan δ 20°C, 120Hz	Ripple current 105°C, 120Hz (Arms)	ESR(typ.) 20°C, 100Hz (mΩ)	Zmax 20°C, 10KHz (mΩ)	ESL(typ.) (nH)	Part number
160 2C (200)	470	36*53	0.15	1.0	277	261	18	LGS2C471MA053I
	680	36*53	0.15	1.1	191	180	18	LGS2C681MA053I
	1000	36*83	0.15	1.7	130	120	18	LGS2C102MA083I
	1500	36*83	0.15	2.0	87	80	18	LGS2C152MA083I
	2200	36*100	0.15	2.7	59	53	18	LGS2C222MA100I
	3300	51*75	0.15	3.5	40	35	21	LGS2C332MC075Y
	4700	51*96	0.15	4.4	30	25	21	LGS2C472MC096Y
	6800	64*96	0.15	5.9	22	23	22	LGS2C682MD096Y
	10000	77*96	0.15	7.6	15	16	24	LGS2C103ME096Y
	15000	77*130	0.15	10.3	14	14	24	LGS2C153ME130Y
22000	90*131	0.15	13.2	10	10	24	LGS2C223MF131Y	
200 2D (250)	330	36*53	0.15	0.8	395	372	18	LGS2D331MA053I
	470	36*53	0.15	1.0	277	261	18	LGS2D471MA053I
	680	36*53	0.15	1.1	191	180	18	LGS2D681MA053I
	1000	36*83	0.15	1.7	120	100	18	LGS2D102MA083I
	1500	36*100	0.15	2.2	100	85	18	LGS2D152MA100I
	2200	51*75	0.15	2.8	68	60	21	LGS2D222MC075Y
	3300	51*96	0.15	3.7	45	35	21	LGS2D332MC096Y
	4700	64*96	0.15	4.9	31	27	22	LGS2D472MD096Y
	6800	64*115	0.15	6.3	21	20	22	LGS2D682MD115I
	10000	77*115	0.15	8.1	14	14	24	LGS2D103ME115Y
15000	90*130	0.15	10.9	10	10	24	LGS2D153MF130Y	
250 2E (300)	330	36*53	0.15	0.8	285	268	18	LGS2E331MA053I
	470	36*53	0.15	1.0	200	187	18	LGS2E471MA053I
	680	36*83	0.15	1.4	138	131	18	LGS2E681MA083I
	1000	36*100	0.15	1.9	84	70	18	LGS2E102MA100I
	1500	51*75	0.15	2.3	56	50	21	LGS2E152MC075Y
	2200	51*96	0.15	3.1	50	45	21	LGS2E222MC096Y
	3300	64*96	0.15	4.2	36	35	22	LGS2E332MD096Y
	4700	64*115	0.15	5.4	25	23	22	LGS2E472MD115Y
	6800	77*115	0.15	6.9	18	18	24	LGS2E682ME115Y
	10000	77*155	0.15	9.3	13	13	24	LGS2E103ME155Y
15000	90*157	0.15	12.2	9	9	24	LGS2E153MF157Y	
400 2G (450)	1000	51*75	0.15	2.5	102	105	21	LGS2G102MC075Y
	1200	51*96	0.15	3.0	85	88	21	LGS2G122MC096Y
	1500	51*115	0.15	3.6	68	70	21	LGS2G152MC115Y
	1800	51*130	0.15	4.1	57	58	21	LGS2G182MC130Y
	2200	64*96	0.15	4.5	46	48	22	LGS2G222MD096Y
	2700	64*115	0.15	5.3	38	40	22	LGS2G272MD115Y
	3300	64*130	0.15	6.2	30	32	22	LGS2G332MD130Y
	3900	64*155	0.15	7.2	26	28	22	LGS2G392MD155Y
		77*115	0.15	6.8	26	28	24	LGS2G392ME115Y
	4700	64*195	0.15	8.7	21	22	22	LGS2G472MD195Y
		77*130	0.15	7.8	21	22	24	LGS2G472ME130Y
	5600	64*195	0.15	9.6	18	19	22	LGS2G562MD195Y
		77*155	0.15	9.2	18	19	24	LGS2G562ME155Y
	6800	90*157	0.15	10.7	15	15	24	LGS2G682MF157Y
	8200	90*157	0.15	11.8	12	15	24	LGS2G821MF157Y
10000	90*196	0.15	14.1	10	15	24	LGS2G103MF196Y	
450 2W (500)	220	36*53	0.15	1.2	415	427	20	LGS2W221MA053I
	330	36*100	0.15	1.5	277	286	20	LGS2W331MA100I
	470	51*83	0.15	2.2	195	201	20	LGS2W471MC083Y
	680	51*96	0.15	2.8	135	139	20	LGS2W681MC096Y
	1000	51*100	0.15	4.2	90	93	21	LGS2W102MC100Y
	1500	51*130	0.15	5.8	54	56	21	LGS2W152MC130Y
	2200	64*115	0.15	7.4	33	34	22	LGS2W222MD115Y
	3300	77*130	0.15	10.1	22	23	22	LGS2W332ME130Y
	4700	77*155	0.15	12.7	15	15	24	LGS2W472ME155Y
	5600	90*157	0.15	15.8	11	11	24	LGS2W562MF157Y