

# KC11 Series GP Snap-in

## Features

- Applications: Power supplies, inverters, photovoltaic, home appliances, audio



- Lifetime: 2000~3000 hours @ 85°C

## Specifications

Operating temperature	-40~+85°C		-25~+85°C				
Rated working voltage	10~400V		450~500V				
Nominal Capacitance	68~82000UF						
Leakage current	$I \leq 0.01CV$ or 1.5mA (20°C, 5mins)						
Low temperature characteristics (120Hz)	Rated Voltage	10	16~35	50~100	160~200	250~400	450~500
	Z-25°C/Z+20°C	5	4	3	3	4	4
	Z-40°C/Z+20°C	18	15	10	6	8	-

Rated Voltage	10~16	25	35~50	63	80~100
≤2700	-	-	0.2	0.15	0.15
3300~4700	-	0.35	0.25	0.2	0.15
5600~6800	0.4	0.35	0.3	0.2	0.2
≥ 8200	0.4	0.35	0.35	0.25	-
Cap (μF)	tanδ (20°C,120Hz)				

160~200	250~500	∅ (mm)
0.1	0.15	22~30
0.12	0.15	35
tanδ (20°C,120Hz)		

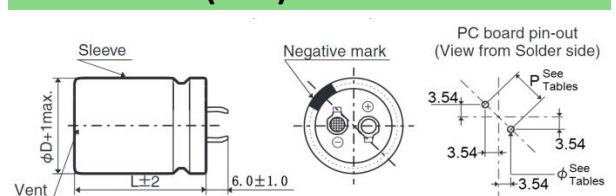
## Test Conditions

	Useful life		Load life	Endurance test	Shelf life
Lifetime	4000h	> 65000h	2000h	3000h	1000h
Applied voltage (V)	$U_R$	$U_R$	$U_R$	$U_R$	$U_R=0$
Applied current	$I_R$	$1.2 \cdot I_R$	$I_R$	$I_R=0$	$I_R=0$
Temperature	85°C	40°C	85°C	85°C	85°C
Failure rate	≤1%	≤1%	Guaranteed		
Capacitance change	< ±30% of Initial value		< ±15% of Initial value	< ±20% of Initial value	< ±15% of Initial value
Leakage current	< The specified value		< The specified value	< The specified value	< The specified value
Dissipation factor tanδ	< ±300% of specified value		< ±150% of specified value	< ±200% of specified value	< ±150% of specified value

## Frequency Coefficient

Voltage(V)	50	120	300	1K	10K	≥50K	Hz
10~50V	0.95	1	1.03	1.05	1.08	1.08	
10~160V	0.92	1	1.07	1.13	1.19	1.2	
160~250V	0.8	1	1.16	1.3	1.43	1.48	
350~450V	0.78	1	1.15	1.28	1.41	1.43	

## Dimensions (mm)



## Temperature Coefficient

Temperature(°C)	+45	+60	+70	+85
	1.55	1.3	1.2	1

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

# KC11 Series

## Standard rating

Voltage DC	Capacitance (µF)	ESR(mΩ) @ 120Hz, 20°C		Ripple Current (A rms)	Ø Dia x Length (mm)	PCB Holes (mm)		Kormag Part Number
		Maximum	Typical			Pitch (P)	Size (Ø)	
10 (13)	10000	54	43	2.50	22*25	10	2	KC11 - 0001 - GP
	12000	45	36	2.90	22*25	10	2	KC11 - 0002 - GP
	15000	36	29	3.20	22*30	10	2	KC11 - 0003 - GP
		36	29	3.10	25*25	10	2	KC11 - 0004 - GP
	18000	30	24	3.60	25*35	10	2	KC11 - 0005 - GP
		30	24	3.60	25*30	10	2	KC11 - 0006 - GP
	22000	25	20	4.00	22*40	10	2	KC11 - 0007 - GP
		25	20	4.10	25*35	10	2	KC11 - 0008 - GP
		25	20	4.10	30*25	10	2	KC11 - 0009 - GP
	33000	17	13	4.60	25*40	10	2	KC11 - 0010 - GP
		17	13	4.80	30*30	10	2	KC11 - 0011 - GP
		17	13	4.80	35*25	10	2	KC11 - 0012 - GP
	39000	14	10.9	5.20	25*45	10	2	KC11 - 0013 - GP
		14	10.9	5.30	30*35	10	2	KC11 - 0014 - GP
	47000	12	9.1	5.80	25*50	10	2	KC11 - 0015 - GP
		12	9.1	6.00	30*40	10	2	KC11 - 0016 - GP
		12	9.1	6.00	35*30	10	2	KC11 - 0017 - GP
	56000	9.5	7.6	6.70	30*45	10	2	KC11 - 0018 - GP
		9.5	7.6	6.80	35*35	10	2	KC11 - 0019 - GP
	68000	7.9	6.3	7.50	30*50	10	2	KC11 - 0020 - GP
7.9		6.3	7.70	35*40	10	2	KC11 - 0021 - GP	
82000	6.5	5.2	8.70	35*45	10	2	KC11 - 0022 - GP	
16 (20)	8200	65	52	2.20	22*25	10	2	KC11 - 0023 - GP
	10000	54	43	2.60	22*30	10	2	KC11 - 0024 - GP
		54	43	2.60	25*25	10	2	KC11 - 0025 - GP
	12000	45	36	2.90	22*35	10	2	KC11 - 0026 - GP
	15000	36	29	3.30	22*40	10	2	KC11 - 0027 - GP
		36	29	3.30	25*30	10	2	KC11 - 0028 - GP
	18000	36	29	3.40	30*25	10	2	KC11 - 0029 - GP
		30	24	3.80	22*45	10	2	KC11 - 0030 - GP
	30	24	3.70	25*35	10	2	KC11 - 0031 - GP	
		25	20	4.20	22*50	10	2	KC11 - 0032 - GP
	22000	25	20	4.20	25*40	10	2	KC11 - 0033 - GP
		25	20	4.20	30*30	10	2	KC11 - 0034 - GP
		25	20	4.40	35*25	10	2	KC11 - 0035 - GP
	27000	20	16	5.00	25*45	10	2	KC11 - 0036 - GP
		20	16	5.00	30*35	10	2	KC11 - 0037 - GP
	33000	17	13	5.60	30*40	10	2	KC11 - 0038 - GP
		17	13	5.60	35*30	10	2	KC11 - 0039 - GP
	39000	14	11	6.20	30*45	10	2	KC11 - 0040 - GP
		14	11	6.30	35*35	10	2	KC11 - 0041 - GP
	47000	12	9.1	7.00	30*50	10	2	KC11 - 0042 - GP
12		9.1	7.20	35*40	10	2	KC11 - 0043 - GP	
56000	9.5	7.6	8.00	35*45	10	2	KC11 - 0044 - GP	
25 (32)	5600	83	67	2.00	22*25	10	2	KC11 - 0045 - GP
	6800	69	55	2.30	22*30	10	2	KC11 - 0046 - GP
		69	55	2.30	25*25	10	2	KC11 - 0047 - GP
	8200	57	46	2.60	22*35	10	2	KC11 - 0048 - GP
	10000	47	38	2.90	22*40	10	2	KC11 - 0049 - GP
		47	38	2.80	25*30	10	2	KC11 - 0050 - GP
		47	38	3.00	30*25	10	2	KC11 - 0051 - GP
	12000	39	31	3.30	22*45	10	2	KC11 - 0052 - GP
		39	31	3.20	25*35	10	2	KC11 - 0053 - GP
		39	31	3.40	30*30	10	2	KC11 - 0054 - GP
	15000	31	25	3.70	25*40	10	2	KC11 - 0055 - GP
		31	25	3.90	35*25	10	2	KC11 - 0056 - GP
	18000	26	21	4.30	25*50	10	2	KC11 - 0057 - GP
		26	21	4.20	30*35	10	2	KC11 - 0058 - GP
		26	21	4.40	35*30	10	2	KC11 - 0059 - GP

Maximum allowable ripple current(A rms) @ 85°C, 120Hz  
Voltage DC ( ) = Surge voltage

# KC11 Series

## Standard rating

Voltage DC	Capacitance (µF)	ESR(mΩ) @ 120Hz, 20°C		Ripple Current (A rms)	Ø Dia x Length (mm)	PCB Holes (mm)		Kormag Part Number
		Maximum	Typical			Pitch (P)	Size (Ø)	
25 (32)	22000	22	17	17.00	30*40	10	2	KC11 - 0060 - GP
		22	17	17.00	35*35	10	2	KC11 - 0061 - GP
	33000	15	12	12.00	35*40	10	2	KC11 - 0062 - GP
	39000	12	10	10.00	35*45	10	2	KC11 - 0063 - GP
35 (44)	3300	100	81	1.80	22*25	10	2	KC11 - 0064 - GP
	3900	86	69	2.10	22*30	10	2	KC11 - 0065 - GP
	4700	71	57	2.20	25*25	10	2	KC11 - 0066 - GP
	5600	72	57	2.30	22*35	10	2	KC11 - 0067 - GP
		72	57	2.30	25*30	10	2	KC11 - 0068 - GP
	6800	59	47	2.90	22*40	10	2	KC11 - 0069 - GP
		59	47	2.60	25*35	10	2	KC11 - 0070 - GP
		59	47	2.70	30*25	10	2	KC11 - 0071 - GP
	8200	57	46	2.80	22*50	10	2	KC11 - 0072 - GP
		57	46	2.80	25*40	10	2	KC11 - 0073 - GP
		57	46	2.80	30*30	10	2	KC11 - 0074 - GP
		57	46	2.90	35*25	10	2	KC11 - 0075 - GP
	10000	47	38	3.10	25*45	10	2	KC11 - 0076 - GP
		47	38	3.20	30*35	10	2	KC11 - 0077 - GP
	12000	39	31	3.50	25*50	10	2	KC11 - 0078 - GP
		39	31	3.50	30*40	10	2	KC11 - 0079 - GP
		39	31	3.60	35*30	10	2	KC11 - 0080 - GP
	15000	31	25	4.10	30*45	10	2	KC11 - 0081 - GP
		31	25	4.10	35*35	10	2	KC11 - 0082 - GP
	18000	26	21	4.60	30*50	10	2	KC11 - 0083 - GP
26		21	4.70	35*40	10	2	KC11 - 0084 - GP	
	22000	22	17	5.30	35*45	10	2	KC11 - 0085 - GP
	27000	18	14	7.00	35*50	10	2	KC11 - 0086 - GP
50 (63)	2200	120	97	1.70	22*25	10	2	KC11 - 0087 - GP
	2700	100	79	1.90	22*30	10	2	KC11 - 0088 - GP
		100	79	1.90	25*25	10	2	KC11 - 0089 - GP
	3300	100	81	2.00	22*35	10	2	KC11 - 0090 - GP
	3900	86	69	2.10	22*35	10	2	KC11 - 0091 - GP
		86	69	2.10	25*30	10	2	KC11 - 0092 - GP
		86	69	2.40	30*25	10	2	KC11 - 0093 - GP
	4700	71	57	2.40	22*40	10	2	KC11 - 0094 - GP
		71	57	2.40	25*35	10	2	KC11 - 0095 - GP
	5600	72	57	2.50	22*50	10	2	KC11 - 0096 - GP
		72	57	2.50	25*40	10	2	KC11 - 0097 - GP
		72	57	2.50	30*30	10	2	KC11 - 0098 - GP
		72	57	2.60	35*25	10	2	KC11 - 0099 - GP
		6800	59	47	2.80	25*45	10	2
	59		47	2.80	30*35	10	2	KC11 - 0101 - GP
	8200	57	46	3.20	25*50	10	2	KC11 - 0102 - GP
		57	46	3.00	30*40	10	2	KC11 - 0103 - GP
		57	46	3.00	35*30	10	2	KC11 - 0104 - GP
	10000	47	38	3.40	30*45	10	2	KC11 - 0105 - GP
		47	38	3.40	35*35	10	2	KC11 - 0106 - GP
12000	39	31	3.80	30*50	10	2	KC11 - 0107 - GP	
	39	31	3.80	35*40	10	2	KC11 - 0108 - GP	
1500	31	25	4.50	35*50	10	2	KC11 - 0109 - GP	
63 (79)	1500	135	107	1.60	22*25	10	2	KC11 - 0110 - GP
	1800	110	89	1.80	22*30	10	2	KC11 - 0111 - GP
	2200	91	73	2.00	22*30	10	2	KC11 - 0112 - GP
		91	73	2.00	25*25	10	2	KC11 - 0113 - GP
	2700	74	59	2.20	22*35	10	2	KC11 - 0114 - GP
		74	59	2.30	25*30	10	2	KC11 - 0115 - GP
	3300	81	65	2.30	22*40	10	2	KC11 - 0116 - GP
		81	65	2.30	25*35	10	2	KC11 - 0117 - GP
81		65	2.30	30*25	10	2	KC11 - 0118 - GP	

Maximum allowable ripple current(A rms) @ 85°C, 120Hz  
Voltage DC ( ) = Surge voltage

# KC11 Series

## Standard rating

Voltage DC	Capacitance (μF)	ESR(mΩ) @ 120Hz, 20°C		Ripple Current (A rms)	Ø Dia x Length (mm)	PCB Holes (mm)		Kormag Part Number	
		Maximum	Typical			Pitch (P)	Size (Ø)		
63 (79)	3900	69	55	2.50	22*45	10	2	KC11 - 0119 - GP	
		69	55	2.60	25*40	10	2	KC11 - 0120 - GP	
		69	55	2.60	30*30	10	2	KC11 - 0121 - GP	
		69	55	2.70	35*25	10	2	KC11 - 0122 - GP	
	5600	48	38	3.10	25*45	10	2	KC11 - 0123 - GP	
		48	38	3.20	30*35	10	2	KC11 - 0124 - GP	
		48	38	3.30	35*30	10	2	KC11 - 0125 - GP	
	6800	40	32	3.60	30*40	10	2	KC11 - 0126 - GP	
		40	32	3.70	35*35	10	2	KC11 - 0127 - GP	
	8200	41	33	3.70	30*50	10	2	KC11 - 0128 - GP	
		41	33	3.80	35*40	10	2	KC11 - 0129 - GP	
	10000	34	27	4.30	35*45	10	2	KC11 - 0130 - GP	
	12000	28	23	4.80	35*50	10	2	KC11 - 0131 - GP	
	80 (100)	1000	200	160	1.30	22*25	10	2	KC11 - 0132 - GP
1200		165	133	1.50	22*30	10	2	KC11 - 0133 - GP	
1500		133	107	1.70	25*25	10	2	KC11 - 0134 - GP	
1800		111	89	1.90	22*35	10	2	KC11 - 0135 - GP	
		111	89	1.90	25*30	10	2	KC11 - 0136 - GP	
2200		91	73	2.10	22*40	10	2	KC11 - 0137 - GP	
		91	73	2.20	25*35	10	2	KC11 - 0138 - GP	
		91	73	2.20	30*25	10	2	KC11 - 0139 - GP	
2700		74	59	2.50	22*50	10	2	KC11 - 0140 - GP	
		74	59	2.50	25*40	10	2	KC11 - 0141 - GP	
		74	59	2.50	30*30	10	2	KC11 - 0142 - GP	
		74	59	2.50	35*25	10	2	KC11 - 0143 - GP	
3300		61	49	2.80	25*45	10	2	KC11 - 0144 - GP	
		61	49	2.80	30*35	10	2	KC11 - 0145 - GP	
3900		52	41	3.10	25*50	10	2	KC11 - 0146 - GP	
		52	41	3.20	30*40	10	2	KC11 - 0147 - GP	
		52	41	3.20	35*30	10	2	KC11 - 0148 - GP	
4700		43	34	3.60	30*45	10	2	KC11 - 0149 - GP	
		43	34	3.60	35*35	10	2	KC11 - 0150 - GP	
5600		48	38	3.50	30*50	10	2	KC11 - 0151 - GP	
		48	38	3.50	35*40	10	2	KC11 - 0152 - GP	
6800		40	32	4.10	35*50	10	2	KC11 - 0153 - GP	
100 (125)		680	293	235	1.10	22*25	10	2	KC11 - 0154 - GP
		820	243	195	1.20	22*30	10	2	KC11 - 0155 - GP
	1000	200	160	1.40	25*25	10	2	KC11 - 0156 - GP	
	1200	166	133	1.60	22*35	10	2	KC11 - 0157 - GP	
		166	133	1.60	25*30	10	2	KC11 - 0158 - GP	
	1500	133	107	1.80	22*40	10	2	KC11 - 0159 - GP	
		133	107	1.70	25*35	10	2	KC11 - 1060 - GP	
		133	107	1.80	30*25	10	2	KC11 - 0161 - GP	
	1800	111	89	2.10	22*50	10	2	KC11 - 0162 - GP	
		111	89	2.00	25*40	10	2	KC11 - 0163 - GP	
		111	89	2.10	30*30	10	2	KC11 - 0164 - GP	
		111	89	2.20	35*25	10	2	KC11 - 0165 - GP	
	2200	91	73	2.20	25*45	10	2	KC11 - 0166 - GP	
		91	73	2.30	30*35	10	2	KC11 - 0167 - GP	
		91	73	2.50	35*30	10	2	KC11 - 0168 - GP	
	2700	74	59	2.60	25*50	10	2	KC11 - 0169 - GP	
		74	59	2.70	30*40	10	2	KC11 - 0170 - GP	
	3300	61	49	3.00	30*45	10	2	KC11 - 0171 - GP	
		61	49	3.10	35*35	10	2	KC11 - 0172 - GP	
	3900	52	41	3.40	30*50	10	2	KC11 - 0173 - GP	
		52	41	3.40	35*40	10	2	KC11 - 0174 - GP	
	4700	43	34	4.00	35*50	10	2	KC11 - 0175 - GP	

Maximum allowable ripple current(A rms) @ 85°C, 120Hz  
Voltage DC ( ) = Surge voltage

# KC11 Series

## Standard rating

Voltage DC	Capacitance (µF)	ESR(mΩ) @ 120Hz, 20°C		Ripple Current (A rms)	Ø Dia x Length (mm)	PCB Holes (mm)		Kormag Part Number
		Maximum	Typical			Pitch (P)	Size (Ø)	
160 (200)	270	490	393	1.20	22*25	10	2	KC11 - 0176 - GP
	330	400	322	1.30	22*25	10	2	KC11 - 0177 - GP
	390	341	273	1.50	22*30	10	2	KC11 - 0178 - GP
		341	273	1.50	25*25	10	2	KC11 - 0179 - GP
	470	283	226	1.60	25*30	10	2	KC11 - 0180 - GP
	560	237	190	1.90	22*35	10	2	KC11 - 0181 - GP
		237	190	1.90	25*30	10	2	KC11 - 0182 - GP
		237	190	2.00	30*25	10	2	KC11 - 0183 - GP
	680	196	157	2.10	22*40	10	2	KC11 - 0184 - GP
		196	157	2.20	25*35	10	2	KC11 - 0185 - GP
	820	162	130	2.50	22*50	10	2	KC11 - 0186 - GP
		162	130	2.40	25*40	10	2	KC11 - 0187 - GP
		162	130	2.50	30*30	10	2	KC11 - 0188 - GP
		195	156	2.40	35*25	10	2	KC11 - 0189 - GP
	1000	133	107	2.70	25*45	10	2	KC11 - 0190 - GP
		133	107	2.80	30*35	10	2	KC11 - 0191 - GP
		160	128	2.70	35*30	10	2	KC11 - 0192 - GP
	1200	111	89	3.10	25*50	10	2	KC11 - 0193 - GP
		111	89	3.20	30*40	10	2	KC11 - 0194 - GP
		133	107	3.00	35*35	10	2	KC11 - 0195 - GP
1500	89	107	3.70	30*45	10	2	KC11 - 0196 - GP	
	107	71	3.50	35*40	10	2	KC11 - 0197 - GP	
1800	89	85	3.90	35*45	10	2	KC11 - 0198 - GP	
2200	73	71	4.50	35*50	10	2	KC11 - 0199 - GP	
180 (225)	270	495	393	1.20	22*25	10	2	KC11 - 0200 - GP
	330	400	322	1.40	22*30	10	2	KC11 - 0201 - GP
	390	340	273	1.50	25*25	10	2	KC11 - 0202 - GP
	470	283	226	1.70	22*35	10	2	KC11 - 0203 - GP
		283	226	1.70	25*30	10	2	KC11 - 0204 - GP
		283	226	1.80	30*25	10	2	KC11 - 0205 - GP
	560	237	190	1.90	22*40	10	2	KC11 - 0206 - GP
		237	190	2.00	25*35	10	2	KC11 - 0207 - GP
	680	196	157	2.30	22*50	10	2	KC11 - 0208 - GP
		196	157	2.20	25*40	10	2	KC11 - 0209 - GP
		196	157	2.30	30*30	10	2	KC11 - 0210 - GP
		235	188	2.20	35*25	10	2	KC11 - 0211 - GP
	820	162	130	2.50	25*45	10	2	KC11 - 0212 - GP
		162	130	2.60	30*35	10	2	KC11 - 0213 - GP
		195	156	2.50	35*30	10	2	KC11 - 0214 - GP
	1000	133	107	2.90	25*50	10	2	KC11 - 0215 - GP
		133	107	2.90	30*40	10	2	KC11 - 0216 - GP
	1200	111	89	3.30	30*45	10	2	KC11 - 0217 - GP
		133	107	3.10	35*35	10	2	KC11 - 0218 - GP
	1500	107	85	3.60	35*45	10	2	KC11 - 0219 - GP
1800	89	71	4.10	35*50	10	2	KC11 - 0220 - GP	
200 (250)	220	600	483	1.10	22*25	10	2	KC11 - 0221 - GP
	270	492	393	1.20	22*30	10	2	KC11 - 0222 - GP
	330	402	322	1.40	22*30	10	2	KC11 - 0223 - GP
		402	322	1.40	25*25	10	2	KC11 - 0224 - GP
	390	341	273	1.60	22*35	10	2	KC11 - 0225 - GP
		341	273	1.60	25*30	10	2	KC11 - 0226 - GP
	470	283	226	1.80	22*40	10	2	KC11 - 0227 - GP
		283	226	1.90	30*25	10	2	KC11 - 0228 - GP
	560	237	190	2.00	22*45	10	2	KC11 - 0229 - GP
		237	190	2.00	25*35	10	2	KC11 - 0230 - GP
		237	190	2.10	30*30	10	2	KC11 - 0231 - GP
		285	228	2.00	35*25	10	2	KC11 - 0232 - GP
	680	196	157	2.30	25*40	10	2	KC11 - 0233 - GP
		196	157	2.40	30*35	10	2	KC11 - 0234 - GP

Maximum allowable ripple current(A rms) @ 85°C, 120Hz  
Voltage DC ( ) = Surge voltage

# KC11 Series

## Standard rating

Voltage DC	Capacitance (µF)	ESR(mΩ) @ 120Hz, 20°C		Ripple Current (A rms)	Ø Dia x Length (mm)	PCB Holes (mm)		Kormag Part Number
		Maximum	Typical			Pitch (P)	Size (Ø)	
200 (250)	820	162	130	2.60	25*50	10	2	KC11 - 0235 - GP
		162	130	2.70	30*40	10	2	KC11 - 0236 - GP
		195	156	2.50	35*30	10	2	KC11 - 0237 - GP
	1000	133	107	3.10	30*45	10	2	KC11 - 0238 - GP
		160	128	2.80	35*35	10	2	KC11 - 0239 - GP
	1200	111	89	3.40	30*50	10	2	KC11 - 0240 - GP
		133	107	3.20	35*40	10	2	KC11 - 0241 - GP
1500	107	85	3.80	35*50	10	2	KC11 - 0242 - GP	
250 (300)	100	1990	1592	0.68	22*25	10	2	KC11 - 0243 - GP
	180	1106	885	0.94	22*25	10	2	KC11 - 0244 - GP
	220	905	724	1.10	22*30	10	2	KC11 - 0245 - GP
		905	724	1.10	25*25	10	2	KC11 - 0246 - GP
	270	737	590	1.20	22*35	10	2	KC11 - 0247 - GP
	330	603	483	1.40	22*40	10	2	KC11 - 0248 - GP
		603	483	1.40	25*30	10	2	KC11 - 0249 - GP
		603	483	1.50	30*25	10	2	KC11 - 0250 - GP
	390	511	409	1.60	22*45	10	2	KC11 - 0251 - GP
		511	409	1.60	25*35	10	2	KC11 - 0252 - GP
	470	424	339	1.80	22*50	10	2	KC11 - 0253 - GP
		424	339	1.80	25*40	10	2	KC11 - 0254 - GP
		424	339	1.80	30*30	10	2	KC11 - 0255 - GP
	560	424	339	2.40	35*25	10	2	KC11 - 0256 - GP
		356	285	2.00	25*45	10	2	KC11 - 0257 - GP
	680	356	285	2.00	30*35	10	2	KC11 - 0258 - GP
		293	235	2.30	30*40	10	2	KC11 - 0259 - GP
	820	293	235	2.60	35*30	10	2	KC11 - 0260 - GP
		243	195	2.60	30*45	10	2	KC11 - 0261 - GP
	1000	243	195	2.60	35*35	10	2	KC11 - 0262 - GP
199		160	3.00	35*40	10	2	KC11 - 0263 - GP	
1200	166	133	3.40	35*45	10	2	KC11 - 0264 - GP	
315 (365)	100	1990	1592	0.67	22*25	10	2	KC11 - 0265 - GP
	150	1327	1062	0.85	22*30	10	2	KC11 - 0266 - GP
		1327	1062	0.85	25*25	10	2	KC11 - 0267 - GP
	180	1106	885	0.96	22*35	10	2	KC11 - 0268 - GP
		1106	885	0.96	25*30	10	2	KC11 - 0269 - GP
	220	905	724	1.10	22*40	10	2	KC11 - 0270 - GP
		905	724	1.10	25*35	10	2	KC11 - 0271 - GP
		905	724	1.10	30*25	10	2	KC11 - 0272 - GP
	270	737	590	1.20	22*45	10	2	KC11 - 0273 - GP
		737	590	1.30	25*40	10	2	KC11 - 0274 - GP
		737	590	1.30	30*30	10	2	KC11 - 0275 - GP
		737	590	1.30	35*25	10	2	KC11 - 0276 - GP
	330	603	483	1.40	25*45	10	2	KC11 - 0277 - GP
		603	483	1.40	30*35	10	2	KC11 - 0278 - GP
	390	511	409	1.60	25*50	10	2	KC11 - 0279 - GP
		511	409	1.60	30*40	10	2	KC11 - 0280 - GP
		511	409	1.60	35*30	10	2	KC11 - 0281 - GP
	470	424	339	1.80	30*45	10	2	KC11 - 0282 - GP
		424	339	1.80	35*35	10	2	KC11 - 0283 - GP
	560	356	285	2.00	30*50	10	2	KC11 - 0284 - GP
356		285	2.00	35*40	10	2	KC11 - 0285 - GP	
680	293	235	2.30	35*45	10	2	KC11 - 0286 - GP	
350 (400)	82	2427	1941	0.64	22*25	10	2	KC11 - 0287 - GP
	100	1990	1592	0.80	22*25	10	2	KC11 - 0288 - GP
	120	1658	1327	0.82	22*30	10	2	KC11 - 0289 - GP
		1658	1327	0.81	25*25	10	2	KC11 - 0290 - GP
	150	1327	1062	0.94	22*35	10	2	KC11 - 0291 - GP
1327		1062	0.94	25*30	10	2	KC11 - 0292 - GP	

Maximum allowable ripple current(A rms) @ 85°C, 120Hz  
Voltage DC ( ) = Surge voltage

# KC11 Series

## Standard rating

Voltage DC	Capacitance (μF)	ESR(mΩ) @ 120Hz, 20°C		Ripple Current (A rms)	Ø Dia x Length (mm)	PCB Holes (mm)		Kormag Part Number
		Maximum	Typical			Pitch (P)	Size (Ø)	
350 (400)	180	1106	885	1.10	22*40	10	2	KC11 - 0293 - GP
		1106	885	1.10	30*25	10	2	KC11 - 0294 - GP
	220	905	724	1.20	22*45	10	2	KC11 - 0295 - GP
		905	724	1.20	25*35	10	2	KC11 - 0296 - GP
		905	724	1.30	30*30	10	2	KC11 - 0297 - GP
	270	737	590	1.40	25*45	10	2	KC11 - 0298 - GP
		737	590	1.40	30*35	10	2	KC11 - 0299 - GP
	330	603	483	1.60	25*50	10	2	KC11 - 0300 - GP
		603	483	1.60	35*30	10	2	KC11 - 0301 - GP
	390	511	409	1.70	30*40	10	2	KC11 - 0302 - GP
		511	409	1.80	35*35	10	2	KC11 - 0303 - GP
	470	424	339	2.00	30*45	10	2	KC11 - 0304 - GP
		424	339	2.00	35*40	10	2	KC11 - 0305 - GP
	560	356	285	2.30	35*45	10	2	KC11 - 0306 - GP
680	293	235	2.60	35*50	10	2	KC11 - 0307 - GP	
820	243	195	2.80	35*60	10	2	KC11 - 0308 - GP	
400 (450)	68	2926	2341	0.55	22*25	10	2	KC11 - 0309 - GP
	82	2427	1941	0.65	22*25	10	2	KC11 - 0310 - GP
	100	1990	1592	0.70	22*30	10	2	KC11 - 0311 - GP
		1990	1592	0.70	25*25	10	2	KC11 - 0312 - GP
	120	1658	1327	0.79	22*35	10	2	KC11 - 0313 - GP
		1327	1062	0.90	22*40	10	2	KC11 - 0314 - GP
	150	1327	1062	0.89	22*40	10	2	KC11 - 0315 - GP
		1327	1062	0.89	25*30	10	2	KC11 - 0316 - GP
		1327	1062	0.95	30*25	10	2	KC11 - 0317 - GP
	180	1106	885	1.00	22*45	10	2	KC11 - 0318 - GP
		1106	885	1.00	25*35	10	2	KC11 - 0319 - GP
		1106	885	1.10	30*30	10	2	KC11 - 0320 - GP
		1106	885	1.20	35*25	10	2	KC11 - 0321 - GP
	220	905	724	1.10	22*50	10	2	KC11 - 0322 - GP
		905	724	1.20	25*40	10	2	KC11 - 0323 - GP
		905	724	1.20	30*35	10	2	KC11 - 0324 - GP
	270	737	590	1.30	25*45	10	2	KC11 - 0325 - GP
		737	590	1.40	25*50	10	2	KC11 - 0326 - GP
		737	590	1.50	30*40	10	2	KC11 - 0327 - GP
	330	603	483	1.60	35*30	10	2	KC11 - 0328 - GP
		603	483	1.70	30*45	10	2	KC11 - 0329 - GP
	390	511	409	1.80	35*35	10	2	KC11 - 0330 - GP
		511	409	1.80	30*50	10	2	KC11 - 0331 - GP
	470	424	339	2.10	35*45	10	2	KC11 - 0332 - GP
560	356	285	2.30	35*50	10	2	KC11 - 0333 - GP	
450 (500)	68	2926	2341	0.57	22*30	10	2	KC11 - 0334 - GP
	82	2427	1941	0.68	25*35	10	2	KC11 - 0335 - GP
	100	1990	1592	0.72	22*35	10	2	KC11 - 0336 - GP
		1990	1592	0.73	25*30	10	2	KC11 - 0337 - GP
	120	1658	1327	0.80	22*40	10	2	KC11 - 0338 - GP
		1658	1327	0.83	25*35	10	2	KC11 - 0339 - GP
	150	1327	1062	0.95	25*40	10	2	KC11 - 0340 - GP
		1327	1062	0.95	30*30	10	2	KC11 - 0341 - GP
		1327	1062	0.98	35*25	10	2	KC11 - 0342 - GP
	180	1106	885	1.10	25*45	10	2	KC11 - 0343 - GP
		1106	885	1.10	30*35	10	2	KC11 - 0344 - GP
		1106	885	1.20	35*25	10	2	KC11 - 0345 - GP
	220	905	724	1.20	25*50	10	2	KC11 - 0346 - GP
		905	724	1.30	30*40	10	2	KC11 - 0347 - GP
		905	724	1.30	35*30	10	2	KC11 - 0348 - GP
	270	737	590	1.40	30*45	10	2	KC11 - 0349 - GP
		737	590	1.50	35*35	10	2	KC11 - 0350 - GP

Maximum allowable ripple current(A rms) @ 85°C, 120Hz  
Voltage DC ( ) = Surge voltage

# KC11 Series

## Standard rating

Voltage DC	Capacitance (µF)	ESR(mΩ) @ 120Hz, 20°C		Ripple Current (A rms)	Ø Dia x Length (mm)	PCB Holes (mm)		Kormag Part Number
		Maximum	Typical			Pitch (P)	Size (Ø)	
450 (500)	330	603	483	1.70	30*50	10	2	KC11 - 0351 - GP
	390	511	409	1.90	35*45	10	2	KC11 - 0352 - GP
	470	424	339	2.20	35*50	10	2	KC11 - 0353 - GP
500 (550)	100	1990	1592	0.90	30*25	10	2	KC11 - 0354 - GP
	120	1658	1327	1.00	30*30	10	2	KC11 - 0355 - GP
		1658	1327	1.00	35*25	10	2	KC11 - 0356 - GP
	150	1327	1062	1.20	30*35	10	2	KC11 - 0357 - GP
	180	1106	885	1.40	30*40	10	2	KC11 - 0358 - GP
		1106	885	1.30	35*30	10	2	KC11 - 0359 - GP
	220	905	724	1.60	30*45	10	2	KC11 - 0360 - GP
		905	724	1.50	35*35	10	2	KC11 - 0361 - GP
	270	737	590	1.80	30*50	10	2	KC11 - 0362 - GP
		737	590	1.70	35*40	10	2	KC11 - 0363 - GP
	330	603	483	2.00	35*45	10	2	KC11 - 0364 - GP
	390	511	409	2.30	35*50	10	2	KC11 - 0365 - GP

Maximum allowable ripple current(A rms) @ 85°C, 120Hz  
Voltage DC ( ) = Surge voltage