

Features

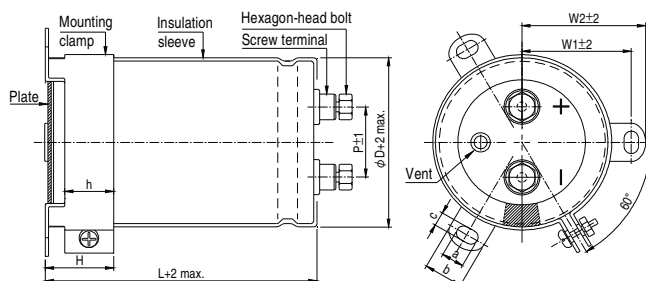
- Endurance with ripple current at: 85°C, 5,000 hours
- High speed charge-discharge
- Suitable for high frequency regenerative voltage for AC servomotor, general inverter
- Suitable for equipment used at voltage fluctuating area and rectifier circuit of voltage doubler
- Application of charge-discharge DC voltage for 50 million times
- RoHS compliance



Specifications

Items	Performance												
Category Temperature Range	-25°C ~ +85°C												
Capacitance Tolerance	±20% (at 120 Hz, 20°C)												
Leakage Current (at 20°C)	$I = 3\sqrt{CV}$ or 5 (mA) whichever is smaller (after 5 minutes) Where, C= rated capacitance in μF, V = rated DC Rated Voltage in V.												
Tanδ (at 120 Hz, 20°C)	See the Dimensions & Permissible Ripple Current												
Low Temperature Characteristics (at 120 Hz)	Capacitance change : $C(-25°C) / C(+20°C) \geq 0.7$												
Endurance of Charge / Discharge behavior	After an application of charge-discharge voltage for 50 million times, capacitors shall meet the characteristics requirement listed below. Charge discharge voltage (ΔV) = rated voltage \times 0.3 Frequency: 3 Hz Temperature: 15 ~ 35°C												
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Failure percentage Failure rate	When the failure percentage / failure rate is required, please contact with us for further discussion.												

Diagram of Dimensions



Unit: mm

φD	P	W1	W2	H	h	a	b	c
51	22.0	31.8	36.5	30	24	7	14.0	4.5
63.5	28.6	38.1	42.6	30	24	7	14.0	4.5
76.2	32.0	44.5	49.2	30	24	7	14.0	5.0
89	32.0	50.8	55.6	30	24	7	14.0	5.0

Screw Specifications:
Plug hexagon-head screw: M5×0.8×10
Max. screw tightening torque: 3.23Nm

Dimension and Permissible Ripple Current

Rated Voltage V _{DC}	Capacitance 120 Hz, 20°C μF	φ D×L mm	Ripple Current 120 Hz, 85°C A/rms	Tan δ at 120 Hz, 20°C	ESR 120 Hz, 20°C mΩ	LC 5 minutes mA	Part Number
350	1,200	51 × 75	5.6	0.15	166	1.94	MKR122M2V--B075
	1,500	51 × 75	6.3	0.15	133	2.17	MKR152M2V--B075
	1,800	51 × 96	7.7	0.15	111	2.38	MKR182M2V--B096
	2,200	51 × 96	8.5	0.15	90.5	2.63	MKR222M2V--B096
	2,700	51 × 130	10.7	0.15	73.7	2.92	MKR272M2V--B130
	3,300	51 × 130	11.9	0.15	60.3	3.22	MKR332M2V--B130
	3,900	63.5 × 115	13.8	0.15	51.0	3.50	MKR392M2V--C115
	4,700	63.5 × 130	15.9	0.15	42.3	3.85	MKR472M2V--C130
	5,600	63.5 × 155	18.6	0.15	35.5	4.20	MKR562M2V--C155
	5,600	76.2 × 115	18.6	0.15	35.5	4.20	MKR562M2V--D115
	6,800	76.2 × 130	21.6	0.15	29.3	4.63	MKR682M2V--D130
	8,200	76.2 × 155	25.7	0.15	24.3	5.00	MKR822M2V--D155
	10,000	89 × 157	28.8	0.15	19.9	5.00	MKR103M2V--E157
	12,000	89 × 157	31.5	0.15	16.6	5.00	MKR123M2V--E157
	15,000	89 × 196	38.9	0.15	13.3	5.00	MKR153M2V--E196
18,000	89 × 236	45.2	0.15	11.1	5.00	MKR183M2V--E236	
400	1,000	51 × 75	5.2	0.15	199	1.90	MKR102M2G--B075
	1,200	51 × 75	5.7	0.15	166	2.08	MKR122M2G--B075
	1,500	51 × 96	7.1	0.15	133	2.32	MKR152M2G--B096
	1,800	51 × 96	7.7	0.15	111	2.55	MKR182M2G--B096
	2,200	51 × 130	9.9	0.15	90.5	2.81	MKR222M2G--B130
	2,700	63.5 × 96	10.7	0.15	73.7	3.12	MKR272M2G--C096
	3,300	63.5 × 115	12.7	0.15	60.3	3.45	MKR332M2G--C115
	3,900	63.5 × 130	14.7	0.15	51.0	3.75	MKR392M2G--C130
	3,900	76.2 × 100	15.3	0.15	51.0	3.75	MKR392M2G--D100
	4,700	63.5 × 155	17.5	0.15	42.3	4.11	MKR472M2G--C155
	4,700	76.2 × 110	18.3	0.15	42.3	4.11	MKR472M2G--D110
	5,600	63.5 × 195	21.1	0.15	35.5	4.49	MKR562M2G--C195
	5,600	76.2 × 130	19.9	0.15	35.5	4.49	MKR562M2G--D130
	6,800	76.2 × 155	23.0	0.15	29.3	4.95	MKR682M2G--D155
	8,200	89 × 157	26.3	0.15	24.3	5.00	MKR822M2G--E157
	10,000	89 × 157	28.8	0.15	19.9	5.00	MKR103M2G--E157
	12,000	89 × 196	34.6	0.15	16.6	5.00	MKR123M2G--E196
15,000	89 × 236	41.9	0.15	13.3	5.00	MKR153M2G--E236	
450	1,000	51 × 75	4.5	0.15	199	2.01	MKR102M2W--B075
	1,200	51 × 96	5.3	0.15	166	2.20	MKR122M2W--B096
	1,500	51 × 115	6.8	0.15	133	2.46	MKR152M2W--B115
	1,800	51 × 130	7.9	0.15	111	2.70	MKR182M2W--B130
	2,200	63.5 × 96	8.4	0.15	90.5	2.98	MKR222M2W--C096
	2,700	63.5 × 115	10.5	0.15	73.7	3.31	MKR272M2W--C115
	3,300	63.5 × 130	12.5	0.15	60.3	3.66	MKR332M2W--C130
	3,900	76.2 × 115	14.3	0.15	51.0	3.97	MKR392M2W--D115
	4,700	63.5 × 195	17.5	0.15	42.3	4.36	MKR472M2W--C195
	4,700	76.2 × 130	16.1	0.15	42.3	4.36	MKR472M2W--D130
	5,600	76.2 × 155	19.2	0.15	35.5	4.76	MKR562M2W--D155
	6,800	89 × 157	23.6	0.15	29.3	5.00	MKR682M2W--E157
	8,200	89 × 157	25.3	0.15	24.3	5.00	MKR822M2W--E157
	10,000	89 × 196	30.2	0.15	19.9	5.00	MKR103M2W--E196
12,000	89 × 236	35.0	0.15	16.6	5.00	MKR123M2W--E236	

Part Numbering System

MKR Series	3300μF	±20%	350V	Plain case + Mounting clamp	M5 Post	51 φ × 130L	
MKR	332	M	2V	-	-	B130	XX
Series Name	Capacitance	Capacitance tolerance	Rated voltage	Case Type	Terminal type	Case size	
Example:		M = ±20% K = ±10%	Example:			Example:	Example:
Cap.	Symbol		Voltage	Symbol		φ D×L	Code
1,000	102		350	2V		63.5×130	C130
3,300	332		400	2G		76.2×115	D115
10,000	103		450	2W		89 ×157	E157

S = Standard
KS = AEC-Q200 Qualified, Safety Critical Application
LS = AEC-Q200 Qualified, Non-Safety Critical Application