

TYPE MKC-P4 series METALLIZED POLYPROPYLENE CAPACITORS

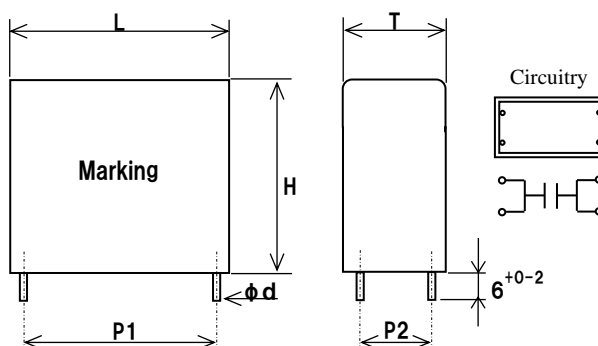
FEATURES AND TECHNOLOGIES

- ◇ DC filtering applications
- ◇ UPS, Inverters for renewable energy
- ◇ Case and resin, UL94-V0 listed
- ◇ Higher humidity capability (85°C/85%RH for 1,000h) is available as an option.

Specifications

Items	Description
Temperature range	-40 ~ +105°C (voltage derating is required at $\geq +85^\circ\text{C}$)
Rated Voltage U_R	450, 700, 900, 1100V.DC
Voltage test between terminals	$1.5 \times U_R/10s$
Terminals	Lead wire (1.0 ϕ , 1.2 ϕ)
Standard	IEC61071:2007
Dielectric	Polypropylene
Electrode	no internal safety device (optional : segmented metallization design)
Case	UL94V-0
Filling material	UL94V-0
Environmental regulations	Comply with RoHS

Case (mm)			Terminal (mm)		
L	T	H	P1	P2	d
43.0	21.5	38.5	37.5	10.2	1.0
42.0	30.0	45.0	37.5	20.3	1.0
57.5	25.0	45.0	52.5	10.2	1.2
57.5	35.0	50.0	52.5	20.3	1.2
57.5	35.0	60.0	52.5	20.3	1.2



Standard Value and case size

No	Nominal Capacitance C_N [μF]	Dimensions			dv/dt [V/ μs]	Maximum peak current I_{peak} [A]	Maximum ripple current (Arms) I_{max} [Arms, at 85°C, 10kHz]	Equivalent Series Resistance ESR [m Ω]	Equivalent Series Inductance ESL [nH]	Product Symbol
		L [mm]	T [mm]	H [mm]						
Rated d.c voltage U_R : 450VDC		Voltage test between terminals UTT: 675Vdc/10s								
1	30	43.0	21.5	38.5	40	800	12.0	6.0	30	MKC-P4-450V306K
2	35	42.0	30.0	45.0	40	1400	18.5	3.5	30	MKC-P4-450V356KS
3	40	57.5	25.0	45.0	20	900	13.5	6.0	35	MKC-P4-450V406K
4	55	57.5	35.0	50.0	20	1300	20.5	4.0	35	MKC-P4-450V556K
5	60	57.5	35.0	50.0	20	1600	20.5	3.5	35	MKC-P4-450V606K
Rated d.c voltage U_R : 700VDC		Voltage test between terminals UTT: 1050Vdc/10s								
1	30	42.0	30.0	45.0	40	1200	17.0	4.0	30	MKC-P4-700V306K
2	35	42.0	30.0	45.0	40	1400	18.5	3.5	30	MKC-P4-700V356KS
3	40	57.5	25.0	45.0	20	800	13.5	6.0	35	MKC-P4-700V406K
4	55	57.5	35.0	50.0	20	1100	18.0	4.5	35	MKC-P4-700V556K
5	60	57.5	35.0	50.0	20	1200	19.0	4.0	35	MKC-P4-700V606K
6	70	57.5	35.0	60.0	20	1400	20.5	3.5	35	MKC-P4-700V706K
7	80	57.5	35.0	60.0	20	1600	21.5	3.0	35	MKC-P4-700V806K
Rated d.c voltage U_R : 900VDC		Voltage test between terminals UTT: 1350Vdc/10s								
1	15	57.5	25.0	45.0	20	300	9.5	12.0	35	MKC-P4-900V156K
2	20	42.0	30.0	45.0	40	800	15.5	5.0	30	MKC-P4-900V206KS
3	35	57.5	35.0	50.0	20	700	15.5	6.0	35	MKC-P4-900V356K
4	40	57.5	35.0	50.0	20	800	17.0	5.0	35	MKC-P4-900V406K
5	45	57.5	35.0	60.0	20	900	16.5	5.0	35	MKC-P4-900V456K
6	50	57.5	35.0	60.0	20	1000	18.5	4.0	35	MKC-P4-900V506K
Rated d.c voltage U_R : 1100VDC		Voltage test between terminals UTT: 1650Vdc/10s								
1	8	43.0	21.5	38.5	45	360	9.5	10.0	30	MKC-P4-1100V805K
2	12	42.0	30.0	45.0	45	540	13.5	6.5	30	MKC-P4-1100V126K
3	10	57.5	25.0	45.0	23	230	8.5	16.0	35	MKC-P4-1100V106K
4	15	57.5	25.0	45.0	23	340	10.5	10.5	35	MKC-P4-1100V156K
5	22	57.5	35.0	50.0	23	500	14.5	7.0	35	MKC-P4-1100V226K
6	25	57.5	35.0	50.0	23	550	15.0	6.5	35	MKC-P4-1100V256K
7	30	57.5	35.0	60.0	23	690	16.5	5.0	35	MKC-P4-1100V306K

Sales & marketing

<http://www.hitachi-chem.co.jp>

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※The description in this paper is as of Feb. 2016 and is subject to change without prior notice for product improvement. Therefore, please confirm the specification before ordering products.

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