

# Resin-encased DC film capacitor

**Upgrade!**

## MKCA Series

**[UPDATE]**

Humidity resistance upgraded to withstand 85°C and 85%RH for 1,000 hours.



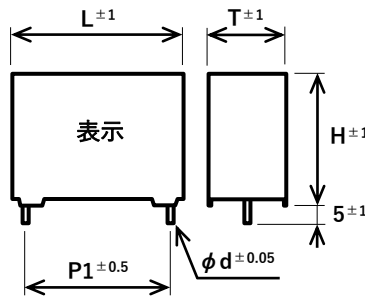
### Features

- Large DC film capacitor with High voltage and High ripple current
- Suitable for applications that require high voltage and high current such as DC-link in large type inverter and power supply
- THB 85°C,85%RH,1000h at rated voltage
- Plastic case and filling resin materials conform to UL94V-0
- UL810 compliant (No.E474687)

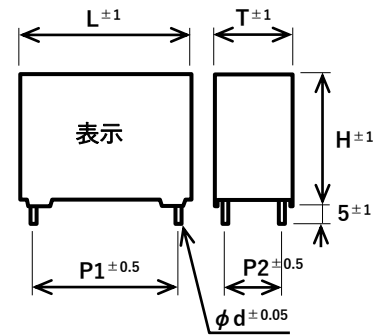
### Specifications

Items	Specifications
Operating temperature range	-40~+105°C (rated voltage derating required over 85°C)
Rated voltage	450 ~ 1200V.DC
Capacitance	1 ~ 80 μF (tolerance: ± 10%)
Terminals	Tinned wire leads, 2 or 4 terminals
Dielectric	Polypropylene
Humidity resistance	85°C,85%RH,1000h
Environmental regulation	Comply with RoHS
Reference standard	IEC61071, UL810

【2-terminals】



【4-terminals】



### Standard products table

Rated voltage [V.dc]	Capacitance [μF]	I <sub>max</sub> [Arms] at 10kHz, 70°C	Dimensions [mm]						Part number
			T	H	L	P1	P2 *	φd	
450	3	4	11	20	32	27.5	-	0.8	MKCA450V305KG302EB
	10	10	18	33	32	27.5	-	0.8	MKCA450V106KGA12EB
	50	19.5	35	50	42.5	37.5	20.3	1.2	MKCA450V506KJP04ED
	75	20	35	50	57.5	52.5	20.3	1.2	MKCA450V756KMP14ED
600	3	3.5	11	20	32	27.5	-	0.8	MKCA600V305KG302EB
	10	8.5	18	33	32	27.5	-	0.8	MKCA600V106KGA12EB
	40	17.5	30	45	42.5	37.5	20.3	1.2	MKCA600V406KJN04ED
	70	20.5	35	50	57.5	52.5	20.3	1.2	MKCA600V706KMP14ED

\* Products with "-" for P2 are 2-terminals products.

◆ If you have any questions about other dimension or capacitance, please feel free to contact us.

**Contact us** <https://www.aictech-inc.com>

Tokyo Sales Office

Saiwai Bldg. 2F 1-3-1, Uchisaiwai-cho Chiyoda-ku Tokyo  
TEL : 81-3-6384-0370 FAX : 81-3-6384-0372

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## MKCA Series

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Rated voltage [V.dc]	Capacitance [ $\mu$ F]	I <sub>max</sub> [Arms] at 10kHz, 70°C	Dimensions [mm]						Part number
			T	H	L	P1	P2 *	$\phi$ d	
700	1	2.5	9	18	32	27.5	-	0.8	MKCA700V105KG102EB
	8	9	18	33	32	27.5	-	0.8	MKCA700V805KGA12EB
	35	18.5	35	50	42.5	37.5	20.3	1.2	MKCA700V356KJP04ED
	80	23	35	60	57.5	52.5	20.3	1.2	MKCA700V806KMP34ED
800	1	2	9	18	32	27.5	-	0.8	MKCA800V105KG102EB
	6	7.5	18	28	32	27.5	-	0.8	MKCA800V605KGA02EB
	50	16.5	35	50	57.5	52.5	20.3	1.2	MKCA800V506KMP14ED
	75	22	35	65	57.5	52.5	20.3	1.2	MKCA800V756KMP44ED
900	1	1.5	9	18	32	27.5	-	0.8	MKCA900V105KG102EB
	6	6.5	18	33	32	27.5	-	0.8	MKCA900V605KGA12EB
	30	18.5	35	50	42.5	37.5	20.3	1.2	MKCA900V306KJP04ED
	60	22	35	65	57.5	52.5	20.3	1.2	MKCA900V606KMP44ED
1000	1	2.5	11	20	32	27.5	-	0.8	MKCA1000V105KG302EB
	5	7.5	18	33	32	27.5	-	0.8	MKCA1000V505KGA12EB
	25	17.5	35	50	42.5	37.5	20.3	1.2	MKCA1000V256KJP04ED
	50	19	35	65	57.5	52.5	20.3	1.2	MKCA1000V506KMP44ED
1100	1	1.5	11	20	32	27.5	-	0.8	MKCA1100V105KG302EB
	4	7.5	18	33	32	27.5	-	0.8	MKCA1100V405KGA12EB
	18	14.5	35	50	42.5	37.5	20.3	1.2	MKCA1100V186KJP04ED
	35	16	35	60	57.5	52.5	20.3	1.2	MKCA1100V356KMP34ED
1200	1	3.5	11	20	32	27.5	-	0.8	MKCA1200V105KG302EB
	3.3	8	18	33	32	27.5	-	0.8	MKCA1200V335KGA12EB
	10	12	30	45	42.5	37.5	20.3	1.2	MKCA1200V106KJN04ED
	30	16	35	60	57.5	52.5	20.3	1.2	MKCA1200V306KMP34ED

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