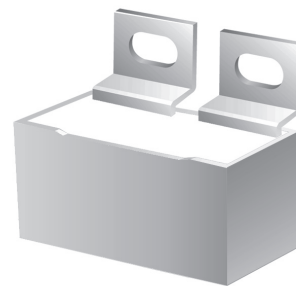


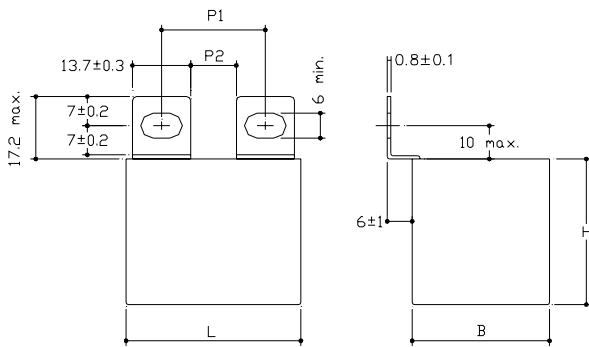
Metallized polypropylene film capacitor MKP - Switching - High current

Main applications: Switching capacitor for resonant circuits, industrial and motor speed controls, induction heaters, high frequency and high current applications.

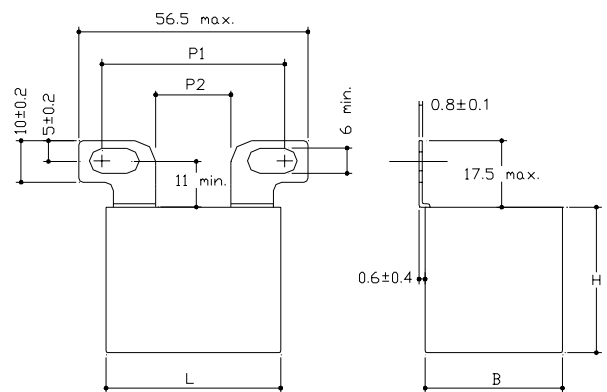


Dielectric	Polypropylene		
Electrodes	Vacuum deposited metal layers		
Coating	Solvent resistant plastic case with resin sealing. Flame retardant execution (UL 94 V-0)		
Construction	Extended metallized film (refer to general technical information)		
Leads	Tinned copper lugs for screw fixing or soldering on PCBs (please refer to article table)		
Degree of protection	IP00		
Installation	Whatever position assuring correct heat dissipation. Arrangement of many components with box walls in contact not admitted; suggested minimum distance between side by side elements $\geq 1/8$ of the box thickness.		
Reference standard	IEC 61071, IEC 60068		
Climatic category	40/85/56 (IEC 60068/1), GPD (DIN40040)		
Operating temperature range(case)	-40°...+85°C		
Max. permissible ambient temperature	+70°C (operation at rated power, rated current and natural cooling)		
Rated capacitance (Cr)	1,5 μ F to 60 μ F. Refer to article table		
Capacitance tolerance (at 1kHz)	$\pm 10\%$ (code=K), $\pm 5\%$ (code=J) and $\pm 20\%$ (code=M). Other tolerances upon request		
Capacitance temperature coefficient	Refer to graphs in general technical information		
Long term stability (at 1kHz)	Capacitance variation $\leq \pm 1\%$ after a period of 2 years at standard environmental conditions		
Rated voltage (Ur)	250, 330, 400, 600, 700 Vdc		
Non Recurrent Surge Voltage (Upk)	400, 500, 600, 800, 1000 Vdc		
Self inductance	≤ 1 nH/mm of fixing pitch		
Maximum pulse rise time	Refer to article table		
Maximum peak current (Ipeak)	Refer to article table. Max. non repetitive Ipk = 1,5 x Ipeak		
Dissipation factor (DF), max.	(tg $\delta \times 10^{-4}$, measured at 25 $\pm 5^\circ$ C)		
	Freq. 1kHz	Cr $\leq 5\mu$ F 5	5 μ F < Cr $\leq 25\mu$ F 8
			Cr > 25 μ F 10
Insulation resistance (IR)	30000s but need not exceed 30G Ω (typical value), after 1 minute of electrification at 100Vdc (25 \pm 5°C).		
Test voltage between terminals (Ut)	2xUr (DC) applied for 10s at 25 $\pm 5^\circ$ C (1 minute for type test)		
Test voltage between terminals and case (Utc)	3kV 50+60Hz applied for 60s at 25 $\pm 5^\circ$ C		
Damp heat test (steady state)	Test conditions: Temperature= +40 $\pm 2^\circ$ C Relative humidity= 93 $\pm 2\%$ Test Duration= 56 days	Performance: Capacitance change $\leq \pm 2\%$ DF change $\leq 0,0010$ at 1kHz IR $\geq 50\%$ of initial limit value	
Typical capacitance change versus operating time	-5% after 30'000 hours at Urms or after 100'000 hours at Ur		
Life expectancy	$\geq 30'000$ hours		
Failure quota	300/10 ⁹ component hours		

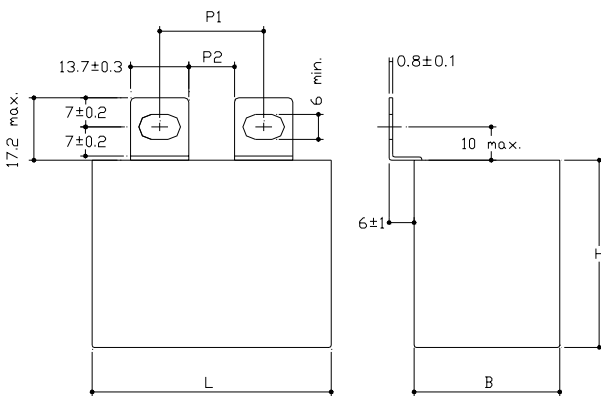
Style SP / SR



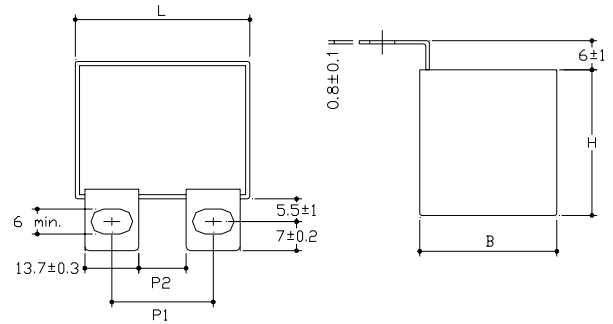
Style BP (Not available for L=57.5mm box)



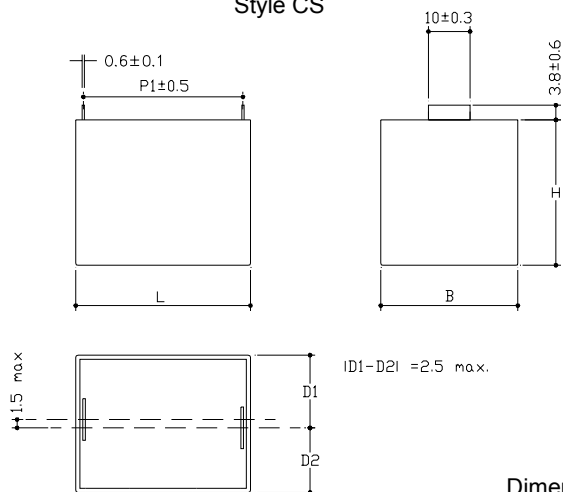
Style SN (for L=57.5mm box only)



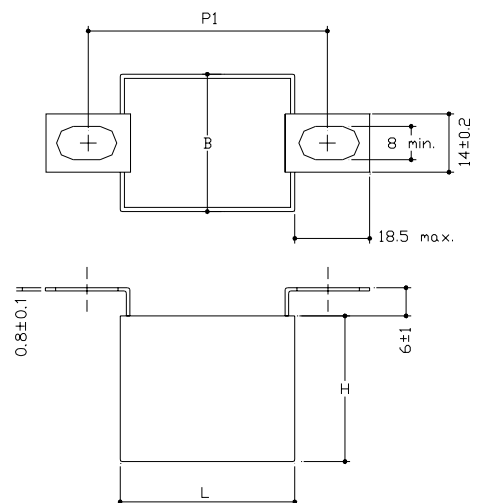
Style VP / VR



Style CS



Style AP



Dimensions in mm

Fixing pitch and distance between lugs (mm)														
L	Style SP		Style SR		Style VP		Style VR		Style SN		Style BP		Style AP	Style CS
	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P1
42.5	23±28 (M6)	11	20±25 (M6)	8	23±28 (M6)	11	20±25 (M6)	8	Not available		32±45 (M6)	17	51±64 (M8)	38.5
57.5	37±42 (M6)	24	34±39 (M6)	21	37±42 (M6)	24	34±39 (M6)	21	23±28 (M6)	11	Not available		65±78 (M8)	52.5

PMC article table (different values available upon request)

Ur Vdc	Urms Vac ⁽⁴⁾	Upk Vdc	Cap. μF	Dimension in mm			du/dt V/μs	Ipeak A	Irms ⁽²⁾ A	ESR ⁽³⁾ mΩ	ICEL Code ⁽¹⁾
				B	H	L					
250	160	400	10	24,5	27,5	42,5	25	250	17,5	2,6	PMC1255100*##
250	160	400	15	33,5	35,5	42,5	25	375	23,5	2,1	PMC1255150*##
250	160	400	20	33,5	35,5	42,5	25	500	25,5	1,8	PMC1255200*##
250	160	400	22	33,5	35,5	42,5	25	550	25,5	1,8	PMC1255220*##
250	160	400	25	33,5	35,5	42,5	25	625	26	1,8	PMC1255250*##
250	160	400	30	33	45	42,5	25	750	28	1,7	PMC1255300*##
250	160	400	33	33	45	42,5	25	825	28	1,7	PMC1255330*##
250	160	400	35	33	45	42,5	25	875	28,5	1,7	PMC1255350*##
250	160	400	50	35	50	57,5	15	750	31	2	PMC1255500*##
250	160	400	60	35	50	57,5	15	900	32	1,9	PMC1255600*##
330	200	500	6,8	24,5	27,5	42,5	30	204	16,5	2,8	PMC1334680*##
330	200	500	15	33,5	35,5	42,5	30	450	24	2	PMC1335150*##
330	200	500	20	33	45	42,5	30	600	27	1,8	PMC1335200*##
330	200	500	22	33	45	42,5	30	660	27,5	1,7	PMC1335220*##
330	200	500	25	30	45	57,5	17	425	23,5	2,8	PMC1335250*##
330	200	500	30	30	45	57,5	17	510	25	2,6	PMC1335300*##
330	200	500	35	35	50	57,5	17	595	30	2,3	PMC1335350*##
330	200	500	40	35	50	57,5	17	680	32	2,1	PMC1335400*##
400	250	600	4	24,5	27,5	42,5	40	160	15,5	3,2	PMC1404400*##
400	250	600	5	24,5	27,5	42,5	40	200	17	2,8	PMC1404500*##
400	250	600	6,8	33,5	35,5	42,5	40	272	22	2,4	PMC1404680*##
400	250	600	10	33,5	35,5	42,5	40	400	24	2	PMC1405100*##
400	250	600	12,5	33	45	42,5	40	500	27	1,9	PMC1405125*##
400	250	600	15	33	45	42,5	40	600	28	1,8	PMC1405150*##
400	250	600	20	30	45	57,5	20	400	25	2,8	PMC1405200*##
400	250	600	22	35	50	57,5	20	440	26,5	2,7	PMC1405220*##
400	250	600	25	35	50	57,5	20	500	28	2,5	PMC1405250*##
600	330	800	2,5	24,5	27,5	42,5	55	137	14,5	3,8	PMC1604250*##
600	330	800	3	24,5	27,5	42,5	55	165	15	3,4	PMC1604300*##
600	330	800	3,3	24,5	27,5	42,5	55	181,5	15,5	3,3	PMC1604330*##
600	330	800	4	33,5	35,5	42,5	55	220	21	2,6	PMC1604400*##
600	330	800	4,7	33,5	35,5	42,5	55	258,5	22	2,4	PMC1604470*##
600	330	800	5	33,5	35,5	42,5	55	275	22,5	2,4	PMC1604500*##
600	330	800	6,8	33	45	42,5	55	374	25	2,2	PMC1604680*##
600	330	800	9	33	45	42,5	55	495	27	1,9	PMC1604900*##
600	330	800	10	30	45	57,5	30	300	22	3,7	PMC1605100*##
600	330	800	12,5	35	50	57,5	30	375	24	3,4	PMC1605125*##
600	330	800	15	35	50	57,5	30	450	25,5	3	PMC1605150*##
700	400	1000	1,5	24,5	27,5	42,5	70	105	13,5	4,6	PMC1704150*##
700	400	1000	2	24,5	27,5	42,5	70	140	14,5	3,8	PMC1704200*##
700	400	1000	2,5	33,5	35,5	42,5	70	175	19	3,3	PMC1704250*##
700	400	1000	3	33,5	35,5	42,5	70	210	20	3	PMC1704300*##
700	400	1000	3,3	33,5	35,5	42,5	70	231	20,5	2,9	PMC1704330*##
700	400	1000	4	33	45	42,5	70	280	23,5	2,5	PMC1704400*##
700	400	1000	4,7	33	45	42,5	70	329	25	2,2	PMC1704470*##
700	400	1000	5	33	45	42,5	70	350	25,5	2,2	PMC1704500*##
700	400	1000	6,8	30	45	57,5	40	272	21,5	3,8	PMC1704680*##
700	400	1000	8	35	50	57,5	40	320	24	3,5	PMC1704800*##
700	400	1000	9	35	50	57,5	40	360	25	3,2	PMC1704900*##

(1)Change the * symbol with the needed capacitance tolerance code: J=±5%, K=±10%, M=±20% and the ## characters with the needed style code - (2) Maximum values at 100kHz, +70°C - (3) Typical values at 100kHz- (4)Not suitable for across the line application.

Warning

This specification must be completed with the data given in the
 “General technical information” chapter