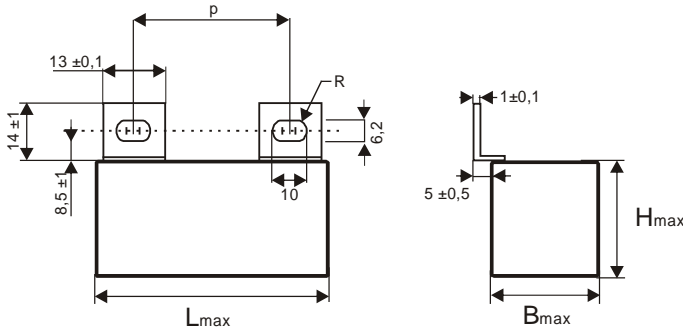


Metallized polypropylene film pulse capacitors



Applications:

Capacitors for applications as IGBT modules protection. Protection circuits in SMPSs, snubber circuits, high voltage and high current applications, high pulse operation.

Construction:

This capacitors are made of metal-Al foil. Dielectric is polypropylene film, plastic, case sealed with epoxy resin. The case and resin are flame retardant (UL - class 94, V-0).

Reference standard: IEC 60384-1, IEC 60384-17

Tolerances : ± 20%(M), ± 10% (K), ± 5%(J)

Climatic category (IEC 60068-1) : 40/085/56

Temperature range: - 40°C ÷ +85°C

Category voltage $U_c = U_R, T \leq 85^\circ\text{C}$

Under operation at rated power max permissible ambient temperature is +70°C.

Max. permissible current pulse is determined by the following :

$$I_p = C \times dU/dt \text{ [A; } \mu\text{F, V}/\mu\text{sec.]}$$

Dissipation factor tg d at 1kHz, +25°C $\tau = R \times C$

$$tg d < 0,0005$$

Test voltage at + 25°C: $1,6 \times U_R$ 1min.

Non repetitive surge voltage Upk:

Type	KPI 346S	KPI 347S	KPI 348S	KPI 349S
Upk	1000V	1400V	1600V	2400V

L [mm]	p[mm]
42,5	27,5 ±0,4
58	27,5±41 ±0,5

Insulation resistance at 100 VDC after 1 min charging between terminals

$$30 \text{ GOhm /C}[\mu\text{F}] \leq R_{is} < 100 \text{ GOhm}$$

ESL value [nH] measured at resonant frequency < 30 nHz

Type	KPST 346S			
Rated voltage DC/AC 630/300V 50/60 Hz				
Capacitance C_R [μF]	Dimensions BxHxL [mm]	ESR [mOhm] at 100kHz Max	I_{RMS} [A] at Ta +55°C	Max. dU/dt V/μs.
0,1	11,5x22x42,5	14	26	4500
0,15	14x26x42,5	12	29	4500
0,22	14x26x42,5	10	32,5	4500
0,33	17x28x42,5	8	36	4200
0,47	22x30x42,5	7	39	4200
0,68	28x37x42,5	6	40,5	4200
1,0	28x37x42,5	5	44	4000
1,5	30x45x42,5	5	45	3500
2,2	35x45x42,5	4	46	3000

Type	KPST 348S			
Rated voltage DC/AC 1200/500V 50/60 Hz				
Capacitance C_R [μF]	Dimensions BxHxL [mm]	ESR [mOhm] at 100kHz Max	I_{RMS} [A] at Ta +55°C	Max. dU/dt V/μs.
0,1	18x28,5x42,5	12	26	4500
0,15	18x28,5x42,5	10	29	4500
0,22	22x30x42,5	8	32,5	4500
0,33	28x37x42,5	6	36	4200
0,47	28x37x42,5	5	39	4200
0,68	30x45x42,5	4	40,5	4200
1,0	35x45x42,5	3,5	44	4000
1,2	40x50x42,5	3,5	44,5	3500
1,2	35x45x58	3	44,5	3500
1,5	40x50x58	3	45	3500
2,0	40x60x58	2,5	45,5	3500
2,5	40x60x58	2,5	46,2	3500

Type	KPST 347S			
Rated voltage DC/AC 1000/475V 50/60 Hz				
Capacitance C_R [μF]	Dimensions BxHxL [mm]	ESR [mOhm] at 100kHz Max	I_{RMS} [A] at Ta +55°C	Max. dU/dt V/μs.
0,1	17x28x42,5	14	26	4500
0,15	18x28,5x42,5	12	29	4500
0,22	22x30x42,5	10	32,5	4500
0,27	22x30x42,5	9	34	4300
0,33	22x30x42,5	8	36	4200
0,47	28x37x42,5	7	39	4200
0,68	28x37x42,5	6	40,5	4000
1,0	30x45x42,5	5	44	3500
1,2	35x45x42,5	5	44,5	3000
1,5	40x50x42,5	4	45	2500
1,5	35x45x58	4	45	2500
2,0	40x50x58	4	45,5	2500
2,5	40x60x58	3	46,2	2500
3,0	40x60x58	3	46,5	2500

Type	KPST 349S			
Rated voltage DC/AC 2000/630V 50/60 Hz				
Capacitance C_R [μF]	Dimensions BxHxL [mm]	ESR [mOhm] at 100kHz Max	I_{RMS} [A] at Ta +55°C	Max. dU/dt V/μs.
0,1	22x30x42,5	12	26	4500
0,15	28x37x42,5	10	29	4500
0,22	28x37x42,5	6	32,5	4500
0,33	30x45x42,5	5	36	4200
0,47	35x45x42,5	4	39	4000
0,68	40x50x42,5	4	40,5	3500
0,82	40x50x42,5	4	42,5	3000
0,82	40x50x58	3,5	42,5	3000
1,0	40x50x58	3,5	44	2500
1,2	40x60x58	3,0	44,5	2500

Other values available upon request.