



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

Applications:

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

Construction:

Metal and aluminium foils with polypropylene film, case sealed with epoxy resin. The case and resin are flame retardant (UL Class 94V0).

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 to +85°C

Category voltage $U_C = U_R$, Ambient Temp ≤ 85°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 $\text{tg } d$ at 1kHz, +25°C $\tau = R \times C$

$\text{tg } d < 0,0005$

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

Non repetitive surge voltage U_{PK} :

Type	346S	347S	348S	349S
U_{PK}	1000V	1400V	1600V	2400V

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 nH

Type	KPST 346S Rated voltage DC/AC 630/300V 50/60 Hz			
Capacity C_R [μF]	Dimensions BxHxL [mm]	ESR [mOhm] at 100kHz Max	I_{RMS} [A] at $T_a < +55^\circ\text{C}$	Max. dU/dt V/ $\mu\text{s.}$
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
2,0	35x45x42,5	4	46	3000
2,2	40x50x58	4	46	3000
2,5	40x50x58	3,5	48	3000
3,0	40x60x58	3,0	48	3000
3,3	40x60x58	3,0	48	3000
3,5	40x60x58	2,5	48	3000
3,9	50x60x58	2,2	48	3000
4,5	50x60x58	2,0	48	3000

Type	KPST 348S Rated voltage DC/AC 1200/500V 50/60 Hz			
Capacity C_R [μF]	Dimensions BxHxL [mm]	ESR [mOhm] at 100kHz	I_{RMS} [A] at $T_a < +55^\circ\text{C}$	Max. dU/dt V/ $\mu\text{s.}$
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	50x60x58	2,5	46,2	3500
2,7	50x60x58	2,5	46,2	3500
3,0	50x60x58	2,5	46,2	3500

Type	KPST 347S Rated voltage DC/AC 1000/475V 50/60 Hz			
Capacity C_R [μF]	Dimensions BxHxL [mm]	ESR [mOhm] at 100kHz Max	I_{RMS} [A] at $T_a < +55^\circ\text{C}$	Max. dU/dt V/ $\mu\text{s.}$
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	45,5	2500
2,2	40x50x58	4	46	2500
2,5	40x60x58	3	46,2	2500
3,0	50x60x58	3	48	2500
3,3	50x60x58	2,6	48	2500
3,6	50x60x58	2,5	48	2500
4,0	50x60x58	2,2	48	2500

Type	KPST 349S Rated voltage DC/AC 2000/630V 50/60 Hz			
Capacity C_R [μF]	Dimensions BxHxL [mm]	ESR [mOhm] at 100kHzMax	I_{RMS} [A] at $T_a < +55^\circ\text{C}$	Max. dU/dt V/ $\mu\text{s.}$
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	40x60x58	3,5	44	2500
1,2	40x60x58	3,0	44,5	2500
1,5	50x60x58	2,5	46	2500

Other values available upon request.