

Compact, High-Voltage, Metallized Polypropylene Power Capacitors	KPST
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Applications

- AC applications with high peak, RMS current
- High pulse loading, snubber applications
- Directly mount to IGBT the bus module or across bus

Main Characteristics

- AC, DC voltage
- Insulation resistance
- Protection against over voltages

Design

- Metalized film electrodes
- Polypropylene film dielectric
- Non-inductive, self-healing construction
- Plastic flame retardant case
- Epoxy resin sealed



Nominal Voltage DC	250VDC	This is the max DC or peak voltage for which capacitor is designed. If the capacitor works with DC and also super-imposed AC voltage U_{AC} , then the sum of DC and the amplitude of AC must not exceed U_R		
Nominal Voltage AC	160VAC	50/60Hz. If the working frequency is higher, the permissible AC voltage must be decreased, not to exceed the maximum loss power of the capacitor.		
Rated Capacitances	3.3μF - 22μF (see table below)			
Tolerances	Typically $\pm 10\%$ or $\pm 20\%$, but other tolerances available on request			
Dissipation Factor	Тдδ	<0.001 at 1kHz and + 25°C.		
ESR	At 100kHz and +25°C < m Ω			
Insulation resistance R _{IS}	30 000/C [MΩ]			
Operating Temperature	-40 ÷ +85°C on case. The highest permissible capacitor temperature at the hottest point of the case must not exceed +85°C.			
Max. permitted dissipation power of the capacitor P_L :	Depends on the cooling conditions			
Test voltage between terminals	2000VDC, 2 min at +25°.			
Protection against over-voltages	The capacitors are built using self-healing films.			
Non Recurrent Surge Voltage	U _{РК} 400V	If the over-voltages exceed the permissible value above, the capacitor may not survive.		
Test voltage between terminals and case	2000VDC, 1 min. at +25°C			
Max. repetitive rate of voltage rise dU/dt	< 25V/ μ sec at U _R and +25°C			
Max. peak current IP	< C _R x dU/dt			
Related standards	IEC 60384-1			

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Capacity	Dimensions ^{±1} [mm]					
CR [µF]	В	Н	L	Р	PL [W]	
3.3	21	30	42.5	18 ÷ 25	1.6	
4.7	28	37	42.5	18 ÷ 25	2	
6.8	28	37	42.5	18 ÷ 25	2	
10	30	45	42.5	18 ÷ 25	2.5	
15	30	45	42.5	18 ÷ 25	2.5	
22	40	50	42.5	18 ÷ 25	3	

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