KPI 545P CAPACITORS FOR HIGH VOLTAGE APPLICATIONS

Construction:
Special metallic electrodes, Polypropylene-film dielectric, No-inductive, self-healing construction, Plastic cylindrical flame retardant case, with bottom screw M8x10. The bottom screw is using as the second terminal of the capacitor.

Applications:
High Voltage capacitors for DC or AC and pulse applications.

Technical data:
Rated voltage \( U_R \): 16 000V DC
Rated voltage is the max. DC or peak voltage, for which the capacitor is designed.
If the capacitor works with the DC and also super-imposed AC voltage \( U_{AC} \), the sum of DC and the amplitude of AC must not exceed the \( U_R \).
Max permissible AC voltage: 3000V 50/60Hz, If the working frequency is higher, the permissible AC voltage must be decreased, not to exceed the max. loss power of the capacitor.
Rated capacitance: \( 10 \div 100 \) nF, other Capacity on request available.
Tolerance: ±10%, ±5%
Dissipation factor \( T_{R_2} \): < 0.001 at 1kHz and +25°C
Insulation resistance \( R_{IS} \): > 3000/C [MΩ]
Operating temperature range: -40 ÷ +70°C
The highest permissible capacitor temperature at the hottest point of the case must not exceed +70°C.

Test voltage between terminals:
5000V 50Hz 10sec. at 25°C Max!
All capacitors are tested by the routine test by the producer.
Protection against Over-voltages: The capacitors are self-healing and regenerate themselves after occasional breakdowns. The capacitor remains fully functional after the breakdown.
Test voltage between terminals and case:
20 000VDC, 1min. at +25°C
Max. repetitive rate of voltage rise \( dU/dt \):
1000V/μsec at \( U_R \) and +25°C
Max. peak current \( I_p \): < \( C_R \times dU/dt \)
Terminals: upper-screw M6

Related standards: ČSN EN 60384-1

Marking for purchase ordering:
KPI 545P 50nF ± 10% 16 000VDC

Warning! The manufacturer is not responsible for any damages, caused by the improper installation and application. Before using the capacitor in any application, please, read carefully this technical datasheet.

<table>
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<tr>
<th>Capacity ( C_R ) [nF]</th>
<th>Dimensions [mm]</th>
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<td>25</td>
<td>50</td>
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