

Film Capacitor

Metallized Polyester Film Capacitor (MKT)

Series/Type: B32561

Ordering code: B32561J6103K

Date: 2010-11-25

Version:



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B32561

Applications

- Electronic ballasts
- SMPS, converter
- Compact fluorescent lamps (CFL)
- Ignition

Construction

- Dielectric: metallised polyester (PET)
- Stack film technology
- Uncoated

Features

- High pulse strength
- Small dimensions

Delivery mode

■ Bulk

Terminals

- Parallel wire leads
- Tin finished

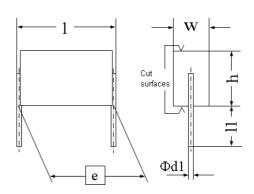
Marking

- Rated capacitance (coded)
- Rated DC voltage

Dimensions

Lead spacing (P):	10.0 ± 0.4	mm
■ Width max. (w):	3.0	mm
Height max. (h):	5.0	mm
Length max. (I):	11.0	mm
■ Lead diameter (Ød₁):	0.5 ± 0.05	mm
■ Lead length:	5.0 -1.0	mm

Dimensional drawing



Dimensions in mm

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	A.
Flectrical	Characteristics

■ Rated Capacitance C	0
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■ Capacitance tolerance ± 10 %

■ Rated DC voltage UR_{DC} 400 V_{DC}

■ Rated AC voltage UR_{AC} (50-60Hz) 200 V_{AC}

■ Climatic category according to IEC 68-1 55/125/56

■ Lower category temperature T_{min} -55 °C

■ Upper category temperature T_{max} +125 °C

■ Max. operating temperature: +125 °C

■ DC test voltage 1.4· V_R, 2s

■ Pulse handling capability (dV/dt) 175 V/µs

■ Pulse characteristic K₀ 140,000 V²/µs

■ Loss factor (tan δ) (in 10^{-3})@ 20°C, 1kHz ≤ 8 ■ Isolation resistance R_{is} @ 20°C, 100V,

relative humidity $\leq 65\%$ $\geqslant 7,500$ M Ω

■ Category voltage $V_{\mathbb{C}}$ (continuous operation with Vdc or VAC at f≤ 1kHz) $V_{\mathbb{C}=1.0}$ $V_{\mathbb{R},DC}$ or 1.0 $V_{\mathbb{R},AC}$ (Ta≤ 85°C) $V_{\mathbb{C}=V_{\mathbb{R},DC}} \cdot (165-T_{\mathbb{A}})/80$ (85°C <Ta≤125°C)

V_{C.RMS=}V_{RMS} · (165-T_A)/80 (85°C<TA≤125°C)



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Cautions and warning

- Do not exceed the upper category temperature (UCT).
- Do not apply any mechanical stress to the capacitor terminals.
- Avoid any compressive, tensile or flexural stress.
- Do not move the capacitor after it has been soldered to the PC board.
- Do not pick up the PC board by the soldered capacitor.
- Do not place the capacitor on a PC board whose PTH hole spacing differs from the specified lead spacing.
- Do not exceed the specified time or temperature limits during soldering.
- Avoid external energy inputs, such as fire or electricity.
- Avoid overload of the capacitors.

The table below summarizes the safety instructions that must always be observed. A detailed description can be found in the relevant sections of the chapters "General technical information" and "Mounting guidelines".

Topic	Safety information	Reference chapter "General technical information"
Storage conditions	Make sure that capacitors are stored within the specified range of time, temperature and humidity conditions.	4.5 "Storage conditions"
Flammability	Avoid external energy, such as fire or electricity (passive flammability), avoid overload of the capacitors (active flammability) and consider the flammability of materials.	5.3 "Flammability"
Resistance to vibration	Do not exceed the tested ability to withstand vibration. The capacitors are tested to IEC 60068-2-6. EPCOS offers film capacitors specially designed for operation under more severe vibration regimes such as those found in automotive applications. Consult our catalog "Film Capacitors for Automotive Electronics".	5.2 "Resistance to vibration"
Topic	Safety information	Reference chapter "Mounting guidelines"
Soldering	Do not exceed the specified time or temperature limits during soldering.	1 "Soldering"
Cleaning	Use only suitable solvents for cleaning capacitors.	2 "Cleaning"
Embedding of capacitors in finished assemblies	When embedding finished circuit assemblies in plastic resins, chemical and thermal influences must be taken into account. Caution: Consult us first, if you also wish to embed other uncoated component types!	3 "Embedding of capacitors in finished assemblies"

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