

Film Capacitor

Metalized Polypropylene Film Capacitor (MKP)

Series/Type: B3292xxxx

Ordering code: B32921C3104M006

Date: 2017-01-16

Version:

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Applications

- X2 class for interference suppression
- "Across the line" applications

Climatic

- Max. operating temperature:110° C
- Climatic category(IEC 60068-1):40/105/56

Construction

- Dielectric: metallised polypropylene (PP)
- Plastic case (UL 94 V-0)
- Epoxy resin sealing (UL 94 V-0)

Features

- Very small dimensions
- Self-healing properties

Delivery mode

■ Bulk (untapped)

Marking

- Manufacturer's logo, lot number,
- Date code, rated capacitance(coded)
- Cap. tolerance(code letter)
- Rated AC voltage
- Series number, sub-class(X2)
- Dielectric code(MKP), climatic category
- Passive flammability category, approvals

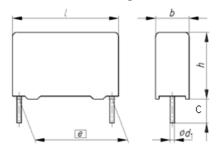
Terminals

- Parallel wire leads
- lead-free Tinned

Dimensions

Lead spacing (e):	10 ± 0.4	mm
■ Width max. (b):	6.0	mm
Height max. (h):	12.0	mm
Length max. (I):	13.0	mm
■ Lead diameter (Ød1):	0.6±0.05	mm
Lead length (C) :	17+1	mm

Dimensional drawing:



Film R&D 2017-01-16



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Electrical Characteristics

Rated Capacitance C
 Capacitance tolerance
 Max.continuous DC voltage Ur_{dc}
 Rated AC voltage Ur_{ac} (50-60Hz)
 100 nF
 ± 20 %
 630Vdc
 305Vac

■ Climatic category according to IEC 68-1 40/105/56days

Lower category temperature T_{min} -40°C
 Upper category temperature T_{max} +105°C
 Max. operating temperature: T_{op,max} +110°C
 Pulse handling capability (dV/dt) 475V/µs
 Pulse characteristic K₀ 408500V²/µs

relative humidity ≤ 65%

■ Passive flammability category to IEC 10(CO) 752 B

Film R&D 2017-01-16



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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	When embedding finished circuit assemblies in	3 "Embedding of
capacitors in	plastic resins, chemical and thermal influences	capacitors in finished
finished assemblies	must be taken into account.	assemblies"
	Caution: Consult us first, if you also wish to	
	embed other uncoated component types!	

Film R&D 2017-01-16





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