



Film Capacitor

Metallized Polyester Film Capacitor (MKT)

Series/Type: B32561
Ordering code: B32561J6103K
Date: 2010-11-25
Version: 1

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

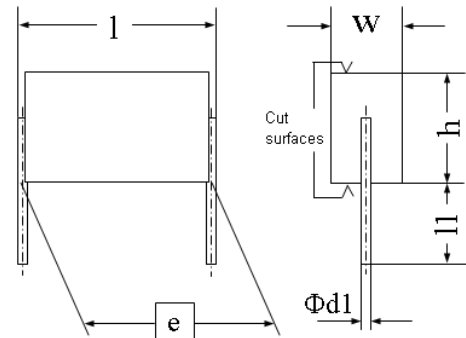
Marking

- 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. (l): 11.0 mm
- Lead diameter ($\varnothing d_1$): 0.5 ± 0.05 mm
- Lead length: 5.0 -1.0 mm

Dimensional drawing



Dimensions in mm

Electrical Characteristics

■ Rated Capacitance C	10	nF
■ 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 K ₀	140,000	V ² /μs
■ Loss factor (tan δ) (in 10 ⁻³) @ 20°C, 1kHz	≤ 8	
■ Isolation resistance R _{is} @ 20°C, 100V, relative humidity ≤ 65%	≥ 7,500	MΩ
■ Category voltage V _C (continuous operation with V _{dc} or V _{AC} at f ≤ 1kHz)	$V_C = 1.0 V_{R,DC} \text{ or } 1.0 V_{R,AC} \quad (T_A \leq 85^\circ\text{C})$ $V_C = V_{R,DC} \cdot (165 - T_A) / 80 \quad (85^\circ\text{C} < T_A \leq 125^\circ\text{C})$ $V_{C,RMS} = V_{RMS} \cdot (165 - T_A) / 80 \quad (85^\circ\text{C} < T_A \leq 125^\circ\text{C})$	

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"

Important notes

The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**. As a rule, EPCOS is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
2. We also point out that **in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
3. **The warnings, cautions and product-specific notes must be observed.**
4. In order to satisfy certain technical requirements, **some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as hazardous)**. Useful information on this will be found in our Material Data Sheets on the Internet (www.epcos.com/material). Should you have any more detailed questions, please contact our sales offices.
5. We constantly strive to improve our products. Consequently, **the products described in this publication may change from time to time**. The same is true of the corresponding product specifications. Please check therefore to what extent product descriptions and specifications contained in this publication are still applicable before or when you place an order. We also **reserve the right to discontinue production and delivery of products**. Consequently, we cannot guarantee that all products named in this publication will always be available. The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.
6. Unless otherwise agreed in individual contracts, **all orders are subject to the current version of the "General Terms of Delivery for Products and Services in the Electrical Industry" published by the German Electrical and Electronics Industry Association (ZVEI)**.
7. The trade names EPCOS, BAOKE, Alu-X, CeraDiode, CSMP, CSSP, CTVS, DSSP, MiniBlue, MiniCell, MKK, MLSC, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SIMID, SineFormer, SIOV, SIP5D, SIP5K, ThermoFuse, WindCap are **trademarks registered or pending** in Europe and in other countries. Further information will be found on the Internet at www.epcos.com/trademarks.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Film Capacitors](#) category:

Click to view products by [EPCOS](#) manufacturer:

Other Similar products are found below :

[F339X134748MIP2T0](#) [F450KG153J250ALH0J](#) [750-1018](#) [FKP1-1500160010P15](#) [FKP1R031007D00JYSD](#) [FKP1R031507E00JYSD](#)
[FKP1U024707E00KYSD](#) [82DC4100CK60J](#) [82EC1100DQ50K](#) [PFR5101J100J11L16.5TA18](#) [PME261JB5220KR19T0](#) [A451GK223M040A](#)
[A561ED221M450A](#) [QXJ2E474KTPT](#) [QXL2B333KTPT](#) [R49AN347000A1K](#) [EEC2G505HQA406](#) [B25668A6676A375](#) [B25673A4282E140](#)
[BFC233868148](#) [BFC2370GC222](#) [C3B2AD44400B20K](#) [C4ASWBU3220A3EK](#) [CB027C0473J--](#) [CB177I0184J--](#) [CB182K0184J--](#) [23PW210](#)
[950CQW5H-F](#) [SBDC3470AA10J](#) [SCD105K122A3-22](#) [2N3155](#) [A571EH331M450A](#) [FKP1-2202KV5P15](#) [FKS3-680040010P10](#)
[QXL2E473KTPT](#) [445450-1](#) [B25669A3996J375](#) [46KI322000M1M](#) [46KR415050M1K](#) [4BSNBX4100ZBFJ](#) [MKP383510063JKP2T0](#)
[MKPY2-.02230020P15](#) [MKT 1813-368-015](#) [4055292001](#) [46KN410000N1K](#) [EEC2E106HQA405](#) [EEC2G205HQA402](#) [EEC2G805HQA415](#)
[P409CP224M250AH470](#) [82EC2150DQ50K](#)