

Film Capacitors – AC Capacitors

Motor run capacitors

Series/Type: B32320/B32322 – MotorCap
Ordering code: B32320/B32322

Date: September 2016
Version: 3

Construction

- Metallized polypropylene film
- Plastic can and top UL 94 V2 material minimum
- Dry type

Features

- Self-healing properties
- Low dissipation factor
- S0 safety class to IEC60252-1 (ed.2) am1:
- High insulation resistance

Typical applications

- For general sine wave applications,
Mainly as motor run capacitor

Terminals

- B32320 – single fast-on: 6.3 × 0.8 mm
- B32322 – double fast-on: 6.3 × 0.8 mm

Mounting parts (optional)

- Threaded stud at bottom of can (M8, max. torque = 5 Nm)
- Locking clip for mounting into a hole of Ø 8 mm



Technical data and specifications

Reference standards	EN60252-1: 2014-07 IEC60252-1: Ed 2,2013-8,amendment 1	
Safety class to IEC 60252-1/ 2013	S0	
Life expectancy to IEC 60252-1 /2013	250 V/85 °C:	10000 h (class B)
	400 V/85 °C:	10000 h (class B)
	480 V/85 °C:	3000 h (class C)
Rated capacitance C _R	See table ordering code	
Tolerance Tx	±5%	
Rated voltage V _{rms}	250 V AC, 400 V AC, 480 V AC	
Rated frequency f _R	50/60 Hz	
Maximum ratings		
Maximum permissible voltage V _{max}	1.1 • V _R	(V _R = Rated voltage)
Maximum permissible current I _{max}	1.3 • I _R	(I _R = Rated current)

Film Capacitors – AC Capacitors

B32320/B32322

Motor run capacitors

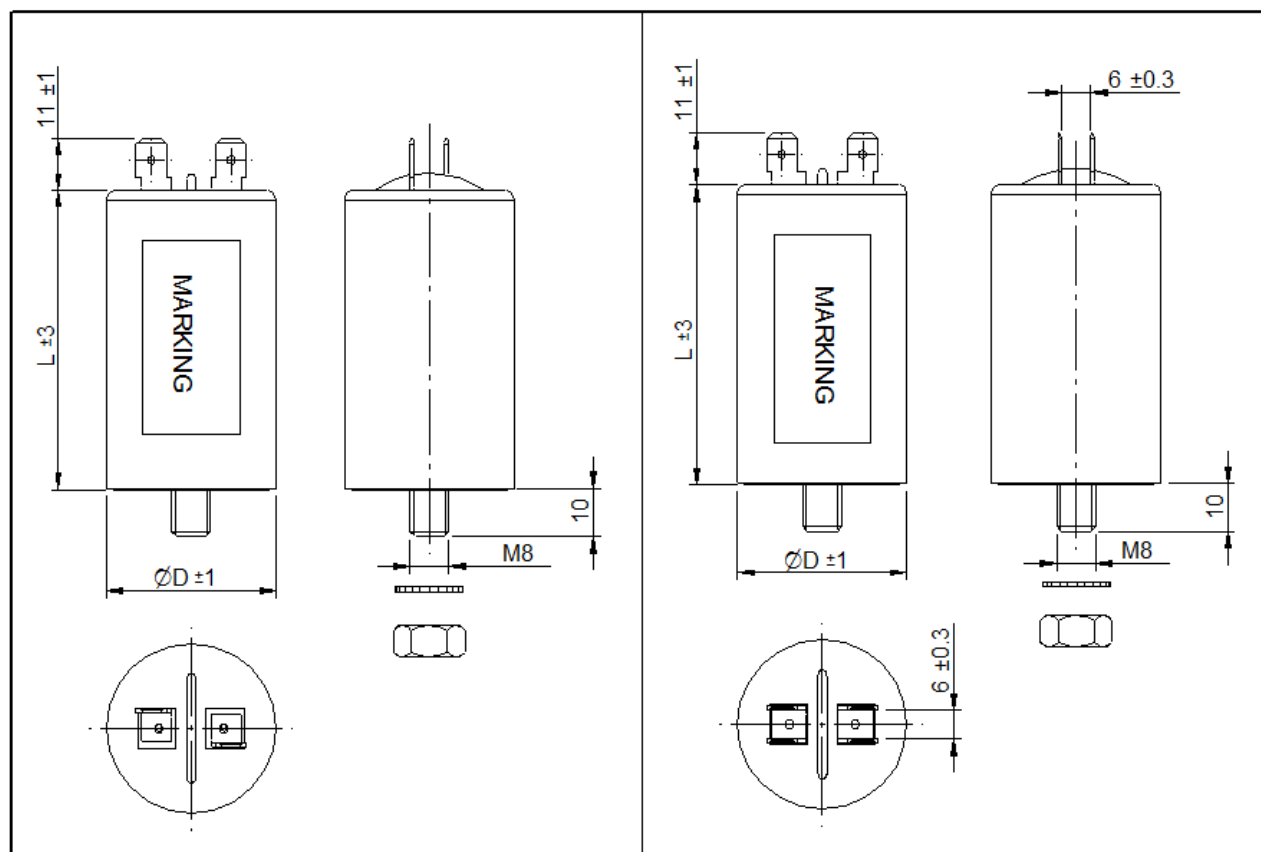
B32320/B32322 – MotorCap

Test data	
AC test voltage terminal to terminal V_{TT}	2 • V_R , 2 s (routine test) 2 • V_R , 60 s (type test)
Insulation resistance R_{ins} or time constant τ at 20 °C, rel. humidity $\leq 65\%$ (minimum as-delivered values)	3000 s
Dissipation factor $\tan \delta$ at 20 °C	$\leq 7.0 \cdot 10^{-3}$ (1 kHz)
Maximum rate of voltage rise dV/dt_{max}	10 V/ μ s
Climatic data	
Climatic category	25/085/21 to IEC 60068-1
Lower category T_{min}	–25° C
Upper category T_{max}	+85° C
Damp heat test t_{test}	21 days
Mechanical and thermal properties	
Ball pressure test to IEC 60309-1 sec. 27.3	20 N at 125 °C
Plastic can and top disk material	Compliant to IEC 60252-1
- UL 94 V2 compatible - Glow wire test to IEC 60695-2-1/0 and –2-1/1 Test temp 550 °C for $I_R \leq 0.5$ A Test temp 850 °C for $I_R > 0.5$ A	Self-extinguishing within 30 seconds of withdrawing the glow wire and without igniting wrapping tissue.
Tracking test to IEC 60112 solution A	> 250 V
Compatibility to RoHS	
Compliance to directive 2002/95/EC	
Approvals	
VDE EN 60252-1 	Approved 400 V/85 °C: 10000 h (class B) for 1.5 μ F to 50 μ F 480 V/85 °C: 3000 h (class C) for 3 μ F to 35 μ F
	Compliance to LV directive 2014/35/EU

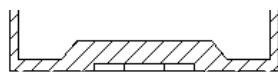
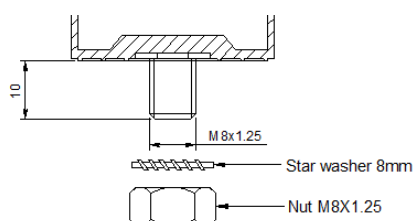
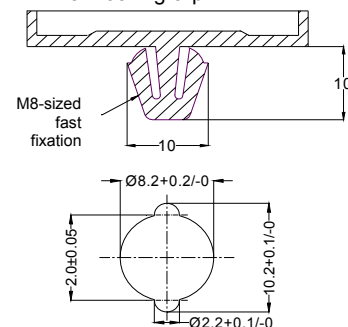
Display of ordering codes for EPCOS products

The ordering code for one and the same EPCOS product can be represented differently in data sheets, data books, other publications, on the EPCOS website, or in order-related documents such as shipping notes, order confirmations and product labels. **The varying representations of the ordering codes are due to different processes employed and do not affect the specifications of the respective products.** Detailed information can be found on the Internet under www.epcos.com/orderingcodes

Dimensional drawings

B32320
B32322


Mounting options

= 1: Can without mounting

= 3: Can with M8 bolt

= 5: Locking clip


Ordering codes and packing units

Rated voltage V_R V AC	Rated capacitance C_R μF	Dimensions D × L B32320 mm	Dimensions D × L B32322 mm	Ordering code	Approvals	Packing unit pcs.
250	1.5	25 × 58	30 × 62	B3232*C1155J0#0	---	112
	2	25 × 58	30 × 62	B3232*C1205J0#0	---	112
	3	25 × 58	30 × 62	B3232*C1305J0#0	---	112
	4	25 × 58	30 × 62	B3232*C1405J0#0	---	112
	5	25 × 58	30 × 62	B3232*C1505J0#0	---	112
	6	25 × 58	30 × 62	B3232*C1605J0#0	---	112
	7	25 × 58	30 × 62	B3232*C1705J0#0	---	112
	7.5	25 × 58	30 × 62	B3232*C1755J0#0	---	112
	8	25 × 58	30 × 62	B3232*C1805J0#0	---	112
	9	30 × 62	30 × 62	B3232*C1905J0#0	---	112
	10	30 × 62	30 × 62	B3232*C1106J0#0	---	112
	12	30 × 62	30 × 62	B3232*C1126J0#0	---	112
	14	30 × 62	30 × 62	B3232*C1146J0#0	---	112
	15	30 × 62	30 × 62	B3232*C1156J0#0	---	112
	16	35 × 62	35 × 62	B3232*C1166J0#0	---	84
	18	35 × 62	35 × 62	B3232*C1186J0#0	---	84
	20	35 × 62	35 × 62	B3232*C1206J0#0	---	84
	22	35 × 62	35 × 62	B3232*C1226J0#0	---	84
	25	35 × 71	35 × 71	B3232*C1256J0#0	---	84
	30	35 × 71	35 × 71	B3232*C1306J0#0	---	84
	35	40 × 71	40 × 71	B3232*C1356J0#0	---	60
	40	40 × 71	40 × 71	B3232*C1406J0#0	---	60
	45	40 × 71	40 × 71	B3232*C1456J0#0	---	60
	50	40 × 96	40 × 96	B3232*C1506J0#0	---	60
	55	40 × 96	40 × 96	B3232*C1556J0#0	---	60
	60	40 × 96	40 × 96	B3232*C1606J0#0	---	60

Film Capacitors – AC Capacitors
B32320/B32322
Motor run capacitors
B32320/B32322 – MotorCap

Rated voltage V_R V AC	Rated capacitance C_R μF	Dimensions D × L B32320 mm	Dimensions D × L B32322 mm	Ordering code	Approvals	Packing unit pcs.
400	1.5	25 × 58	30 × 62	B3232*B4155J0#0	VDE	112
	2	25 × 58	30 × 62	B3232*B4205J0#0	VDE	112
	3	25 × 58	30 × 62	B3232*B4305J0#0	VDE	112
	4	25 × 58	30 × 62	B3232*B4405J0#0	VDE	112
	5	30 × 62	30 × 62	B3232*B4505J0#0	VDE	112
	6	30 × 62	30 × 62	B3232*B4605J0#0	VDE	112
	7	35 × 62	35 × 62	B3232*B4705J0#0	VDE	84
	8	35 × 62	35 × 62	B3232*B4805J0#0	VDE	84
	9	35 × 62	35 × 62	B3232*B4905J0#0	VDE	84
	10	35 × 62	35 × 62	B3232*B4106J0#0	VDE	84
	12	35 × 71	35 × 71	B3232*B4126J0#0	VDE	84
	14	35 × 71	35 × 71	B3232*B4146J0#0	VDE	84
	15	40 × 71	40 × 71	B3232*B4156J0#0	VDE	60
	16	40 × 71	40 × 71	B3232*B4166J0#0	VDE	60
	18	40 × 71	40 × 71	B3232*B4186J0#0	VDE	60
	20	40 × 71	40 × 71	B3232*B4206J0#0	VDE	60
	22	40 × 96	40 × 96	B3232*B4226J0#0	VDE	60
	25	40 × 96	40 × 96	B3232*B4256J0#0	VDE	60
	30	40 × 96	40 × 96	B3232*B4306J0#0	VDE	60
	35	45 × 96	45 × 96	B3232*B4356J0#0	VDE	45
	40	45 × 96	45 × 96	B3232*B4406J0#0	VDE	45
	45	50 × 96	50 × 96	B3232*B4456J0#0	VDE	32
	50	50 × 96	50 × 96	B3232*B4506J0#0	VDE	32
	55	50 × 96	50 × 96	B3232*B4556J0#0	---	32
	60	50 × 96	50 × 96	B3232*B4606J0#0	—	32

Rated voltage V_R V AC	Rated capacitance C_R μF	Dimensions D × L B32320 mm	Dimensions D × L B32322 mm	Ordering code	Approvals	Packing unit pcs.
480	3	30 × 62	30 × 62	B3232*B7305J0#0	VDE	112
	4	30 × 62	30 × 62	B3232*B7405J0#0	VDE	112
	5	30 × 62	30 × 62	B3232*B7505J0#0	VDE	112
	6	35 × 62	35 × 62	B3232*B7605J0#0	VDE	84
	7.5	35 × 71	35 × 71	B3232*B7755J0#0	VDE	84
	8	35 × 71	35 × 71	B3232*B7805J0#0	VDE	84
	10	40 × 71	40 × 71	B3232*B7106J0#0	VDE	60
	12	40 × 71	40 × 71	B3232*B7126J0#0	VDE	60
	15	45 × 71	45 × 71	B3232*B7156J0#0	VDE	45
	16	45 × 71	45 × 71	B3232*B7166J0#0	VDE	45
	20	45 × 71	45 × 71	B3232*B7206J0#0	VDE	45
	22	45 × 71	45 × 71	B3232*B7226J0#0	VDE	45
	25	45 × 96	45 × 96	B3232*B7256J0#0	VDE	45
	30	45 × 96	45 × 96	B3232*B7306J0#0	VDE	45
	35	50 × 96	50 × 96	B3232*B7356J0#0	VDE	32

Composition of ordering code:

*: Terminals

- 0 single fast-on terminals
- 2 double fast-on terminals

#: construction

- 1 plastic can
- 3 plastic can with M8 bolt
- 5 plastic can with locking clip, available for diameters 30 mm, 32 mm and 35 mm, others on request



Please read “Applications warning, installation and maintenance instructions” and the “ZVEI - General safety recommendations for power capacitors”, which are available on the Internet at www.epcos.com/ac_capacitors, to ensure optimum performance and to prevent products from failing, and in worst case, bursting and fire. Information given in the data sheet reflects typical specifications.

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 we are 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 a 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.tdk-electronics.tdk.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 our General Terms and Conditions of Supply**.
7. **Our manufacturing sites serving the automotive business apply the IATF 16949 standard**. The IATF certifications confirm our compliance with requirements regarding the quality management system in the automotive industry. Referring to customer requirements and customer specific requirements ("CSR") TDK always has and will continue to have the policy of respecting individual agreements. Even if IATF 16949 may appear to support the acceptance of unilateral requirements, we hereby like to emphasize that **only requirements mutually agreed upon can and will be implemented in our Quality Management System**. For clarification purposes we like to point out that obligations from IATF 16949 shall only become legally binding if individually agreed upon.
8. The trade names EPCOS, CeraCharge, CeraDiode, CeraLink, CeraPad, CeraPlas, CSMP, CTVS, DeltaCap, DigiSiMic, ExoCore, FilterCap, FormFit, LeaXield, MiniBlue, MiniCell, MKD, MKK, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, PowerHap, PQSine, PQvar, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, ThermoFuse, WindCap are **trademarks registered or pending** in Europe and in other countries. Further information will be found on the Internet at www.tdk-electronics.tdk.com/trademarks.

Release 2018-10

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[EPCOS / TDK:](#)

[B32322B4306J010](#)

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9