



MV Surge Capacitor

Series/Type: B25161

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B25161T0050M000		2024-11-22	2025-03-07	2025-06-06
B25161T0025M000		2024-11-22	2025-03-07	2025-06-06
B25161T0012M000		2024-11-22	2025-03-07	2025-06-06



Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B25161T0010M000		2024-11-22	2025-03-07	2025-06-06
B25161S0050M000		2024-11-22	2025-03-07	2025-06-06
B25161S0025M000		2024-11-22	2025-03-07	2025-06-06
B25161S0012M000		2024-11-22	2025-03-07	2025-06-06
B25161S0010M000		2024-11-22	2025-03-07	2025-06-06
B25161P0050M000		2024-11-22	2025-03-07	2025-06-06
B25161P0025M000		2024-11-22	2025-03-07	2025-06-06
B25161P0012M000		2024-11-22	2025-03-07	2025-06-06
B25161P0010M000		2024-11-22	2025-03-07	2025-06-06
B25161L0050M000		2024-11-22	2025-03-07	2025-06-06
B25161L0025M000		2024-11-22	2025-03-07	2025-06-06
B25161L0012M000		2024-11-22	2025-03-07	2025-06-06
B25161L0010M000		2024-11-22	2025-03-07	2025-06-06
B25161G0050M000		2024-11-22	2025-03-07	2025-06-06
B25161G0025M000		2024-11-22	2025-03-07	2025-06-06
B25161C0050M000		2024-11-22	2025-03-07	2025-06-06
B25161C0025M000		2024-11-22	2025-03-07	2025-06-06
B25161C0025O000		2024-11-22	2025-03-07	2025-06-06
B25161C0050O000		2024-11-22	2025-03-07	2025-06-06
B25161G0025O000		2024-11-22	2025-03-07	2025-06-06
B25161G0050O000		2024-11-22	2025-03-07	2025-06-06
B25161L0025O000		2024-11-22	2025-03-07	2025-06-06
B25161L0050O000		2024-11-22	2025-03-07	2025-06-06
B25161P0025O002		2024-11-22	2025-03-07	2025-06-06
B25161L0010O001		2024-11-22	2025-03-07	2025-06-06
B25161L0012O000		2024-11-22	2025-03-07	2025-06-06
B25161L0010O001		2024-11-22	2025-03-07	2025-06-06
B25161L0012O000		2024-11-22	2025-03-07	2025-06-06
B25161L0010O001		2024-11-22	2025-03-07	2025-06-06
B25161L0012O000		2024-11-22	2025-03-07	2025-06-06

Please contact your nearest TDK sales office if you need support in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.tdk-electronics.tdk.com/sales.

Preliminary data

Applications

- Surge suppression in MV grids
- Protection of MV equipment such as generators, motors, transformers and reactors by reducing dv/dt and smoothing voltage distribution across the winding
- Damps reflected waves within winding
- Protection of mechanical and solid state switching devices from malfunction like pre-strike, post-strike and insulation failure
- Reduction of switching-off transients caused by inductive current chopping through vacuum or other switchgear
- Prevention of malfunction of relays and protection schemes due to transients

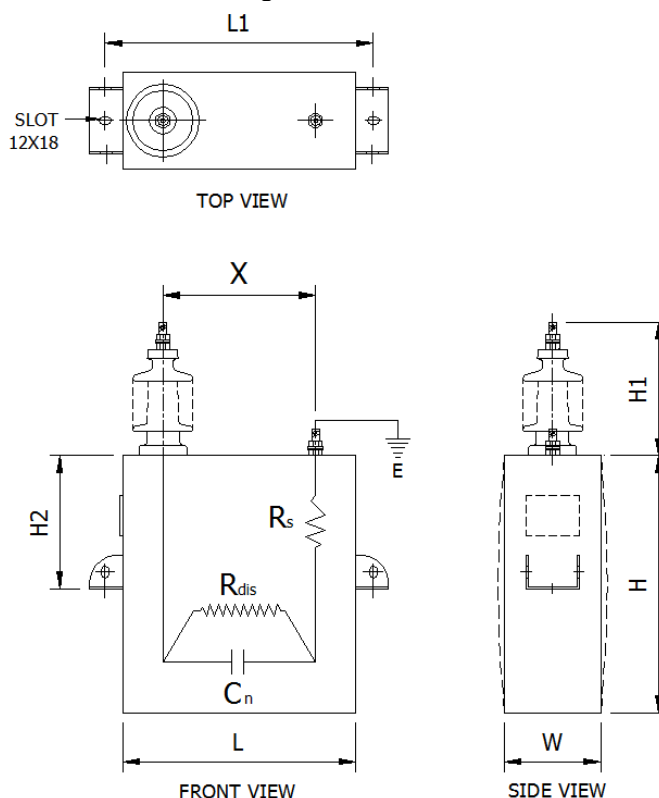
Features

- Oil impregnated all-polypropylene capacitor (APP)
- Cost effective solution to protect valuable MV assets
- Highly reliable design with edge folding construction
- Designed and tested according to IEC 60871 (1): 2014
- Stainless steel grade 409 container
- Temperature category: -25/D
- Internal discharge device
- Paint shade of container: light grey

Options

- External series resistor optional
- This datasheet shows standard ratings, for special requirements please contact our local sales representative

Dimensional drawings



Preliminary data
Technical data and ordering codes

Ordering code	V*	C _N (L-E)	R _s	L	L1	W	H	H1	H2	Terminal stud	X	Appr. Wt.	Creep-age	Bushing colour
	kV	µF	ohm	mm	mm	mm	mm	mm	mm	mm	mm	kg	mm	
B25161L0010M000	3.6	0.1	100	200	254	115	175	200	50	M12	100	9	300	Brown
B25161L0012M000	3.6	0.125	100	200	254	115	175	200	50	M12	100	9	300	Brown
B25161C0025M000	3.6	0.25	40	175	230	115	125	165	50	M12	85	6	180	Brown
B25161C0050M000	3.6	0.5	20	175	230	115	175	165	50	M12	85	8	180	Brown
B25161L0010M000	7.2	0.1	100	200	254	115	175	200	50	M12	100	9	300	Brown
B25161L0012M000	7.2	0.125	100	200	254	115	175	200	50	M12	100	9	300	Brown
B25161G0025M000	7.2	0.25	40	175	230	115	175	165	50	M12	85	8	180	Brown
B25161G0050M000	7.2	0.5	10	250	304	115	200	165	100	M12	150	11	180	Brown
B25161L0010M000	12	0.1	100	200	254	115	175	200	50	M12	100	9	300	Brown
B25161L0012M000	12	0.125	100	200	254	115	175	200	50	M12	100	9	300	Brown
B25161L0025M000	12	0.25	20	250	304	115	225	200	100	M12	150	12	300	Brown
B25161L0050M000	12	0.5	5	343	397	115	225	200	100	M12	230	15	300	Brown
B25161P0010M000	18	0.1	40	250	304	115	200	225	100	M16	150	11	380	Brown
B25161P0012M000	18	0.125	40	250	304	115	200	225	100	M16	150	11	380	Brown
B25161P0025M000	18	0.25	10	250	304	115	275	225	100	M16	150	14	380	Brown
B25161P0050M000	18	0.5	5	343	397	115	325	225	100	M16	230	21	380	Brown
B25161S0010M000	36	0.1	--	250	304	120	400	360	200	M16	150	22	760	Grey
B25161S0012M000	36	0.125	--	250	304	120	400	360	200	M16	150	22	760	Grey
B25161S0025M000	36	0.25	--	350	404	120	475	360	200	M16	230	32	760	Grey
B25161S0050M000	36	0.5	--	350	404	160	625	360	200	M16	230	52	760	Grey
B25161T0010M000	40	0.1	--	250	304	120	400	470	200	M16	150	22	1320	Grey
B25161T0012M000	40	0.125	--	250	304	120	475	470	200	M16	150	25	1320	Grey
B25161T0025M000	40	0.25	--	350	404	120	550	470	200	M16	230	37	1320	Grey
B25161T0050M000	40	0.5	--	350	404	185	675	470	200	M16	230	63	1320	Grey

* Voltage rating indicates the highest permissible system voltage

Display of ordering codes for TDK Electronics products

The ordering code for one and the same product can be represented differently in data sheets, data books, other publications, on the company 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.tdk-electronics.tdk.com/orderingcodes.

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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.

Important notes

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.

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