

### **EPCOS Product Brief 2013**

# Surge Arresters – EHV Series

Gas Discharge Tubes for Enhanced High-Voltage Applications

### **Applications**

### Automotive

- On-board chargers in electric and hybrid vehicles
- EV charging stations

### Consumer

- Air-conditioning
- Power supplies
- Printers and telefax

### Industrial

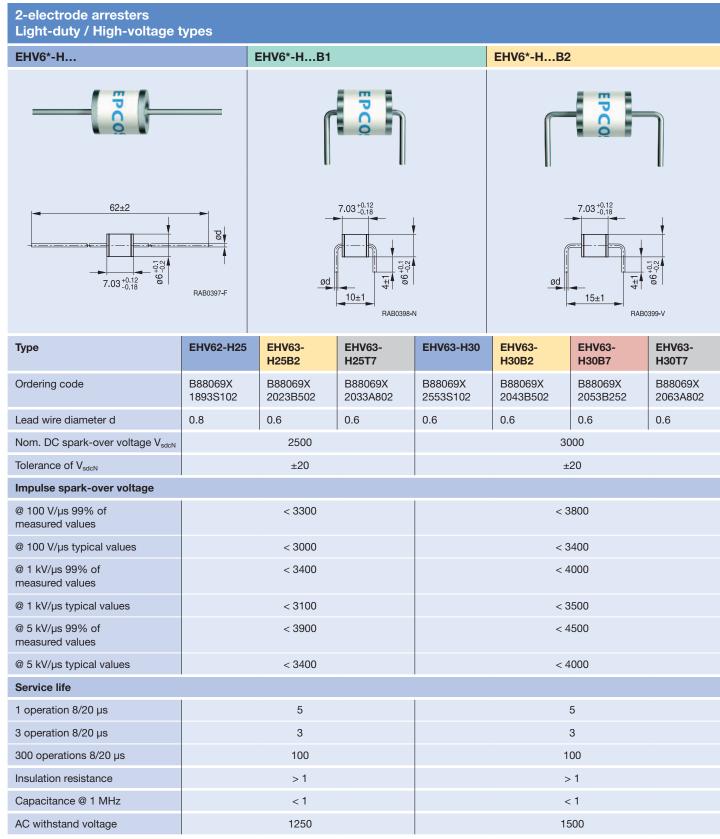
- LED street lighting
- Photovoltaics
- RF antenna circuits
- UPS

### **Features**

- Built to automotive standard (ISO TS 16949)
- Small sizes
- Fast response time
- High current handling capability
- Stable performance over service life
- Low capacitance and insertion loss
- High insulation resistance
- RoHS-compliant
- Different wire configurations and packaging upon request

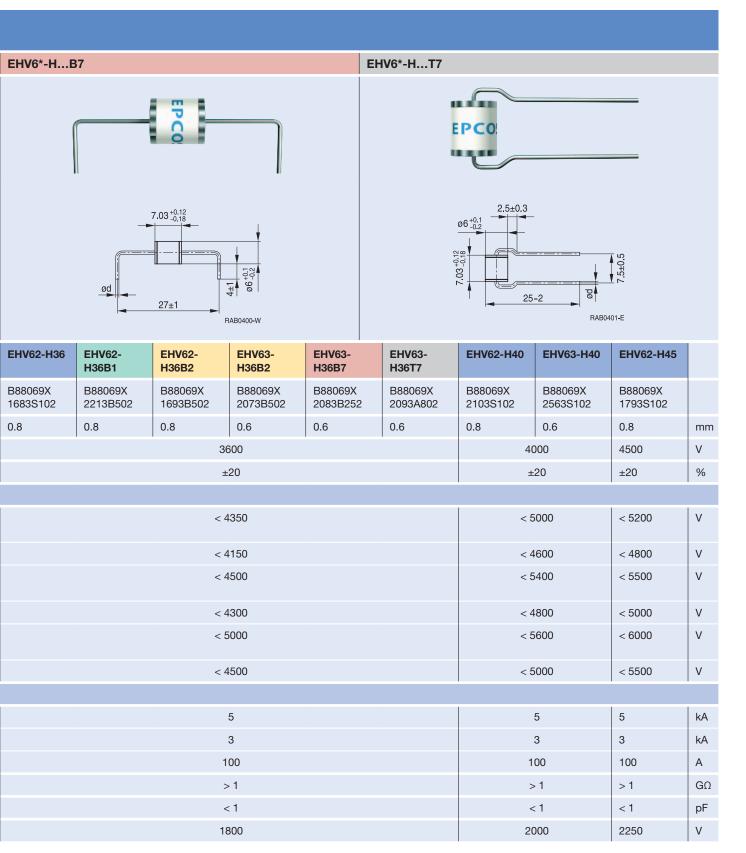


# Surge Arresters – EHV Series



Other combinations of voltage level, bending style and wire diameter on request.





# Surge Arresters – EHV Series

### Overvoltage protection by gas discharge tubes

Voltage surges in powered systems caused by lightning or line power faults can affect sensitive electronic circuitry. Gas discharge tubes (GDTs) have long been the solution of choice for overvoltage protection in installations such as underground cables, overhead lines, private branch exchanges and telecom main distribution frames. Now they are standard solution for preventing damage by surges in DSL- and cable modems, fax machines and other communication equipment.

GDTs shunt surge current to ground and limit overvoltage to a harmless level. Major benefits of GDTs are their high current handling capability (up to several kA), high insulation resistance and extremely low capacitance, making them almost unnoticed in normal operation.

With the implementation of onboard electric circuitry as part of the introduction of electric and plug-in hybrid drives, automobiles are now confronted with the same dangers as fixed installations or equipment. In the new EHV series EPCOS offers arresters with high current handling capability that are especially designed for the needs of the automotive industry.

All tubes are produced at a site certified to ISO TS 16949 standard together with products that have been in use in automotive applications for almost 20 years. The arresters are tested by automotive standards like IEC 60068 and can sustain high humidity environments and heavy vibration while maintaining full operability at all times. They can withstand high AC voltages without ignition. The EPCOS EHV series is fully UL graded (UL1449, E319264) and can be delivered for many different voltage levels as well as in different wire configurations.

### Overvoltage protection of battery chargers in automotive application

# 2-electrode arrester with varistors A 2-electrode arrester is connected to the center point of the series connection of two varistors EMI filter Rectifier Converter DC RABD396 X-E

Structure of ordering codes: The ordering code for one and the same product can be represented differently in data sheets, data books, other publications and the website of EPCOS, 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.

Important information: 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. We expressly point out that these statements cannot be regarded as binding statements about the suitability of our products for a particular customer application. It is incumbent on the customer to check and decide whether a product is suitable for use in a particular application. This publication is only a brief product survey which may be changed from time to time. Our products are described in detail in our data sheets. The Important notes (www.epcos.com/ImportantNotes) and the product-specific Cautions and warnings must be observed. All relevant information is available through our sales offices.

## **Mouser Electronics**

**Authorized Distributor** 

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

EPCOS / TDK: B88069X0178S102

### **ПОСТАВКА** ЭЛЕКТРОННЫХ КОМПОНЕНТОВ

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

# 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\_6 moschip.ru\_4 moschip.ru\_9