

2-1904058-5 ✓ ACTIVE



Mini K HV Precharge Relay

TE Internal #: 2-1904058-5

Mini K HV Precharge Relay, Automotive High Voltage Relays, 12 VDC Coil Voltage, Without Parallel Resistor, PCB-THT, 400 VDC Rated Voltage

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Relays, Contactors & Switches > Relays > Automotive Relays > Automotive High Voltage Relays



Rated Coil Voltage: **12 VDC**

High Voltage Automotive Relay Contact Current Class: **<20 A**

Coil Suppress: **Without Parallel Resistor**

High Voltage Automotive Relay Terminal Type: **PCB-THT**

Rated Voltage: **400 VDC**

Features

Product Type Features

Relay Type	Mini K HV Precharge Relay
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Electrical Characteristics

Contact Limiting Making Current	20 A
Insulation Initial Dielectric Between Contacts and Coil	2000 Vrms
Insulation Initial Dielectric Between Coil/Contact Class	>1000V
Rated Coil Voltage	12 VDC
Coil Suppress	Without Parallel Resistor
Rated Voltage	400 VDC
Contact Limiting Breaking Current	20 A
Coil Resistance	50 Ω
Insulation Initial Dielectric Between Open Contacts	2000 Vrms
Contact Switching Voltage (Max)	450 VDC
Coil Magnetic System	Monostable - DC
Coil Power Rating (DC)	2900 mW

Body Features

Weight	17 g[.6 oz]
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Contact Features

Contact Base Material	Silver Alloy
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High Voltage Automotive Relay Contact Current Class	<20 A
High Voltage Automotive Relay Terminal Type	PCB-THT
High Voltage Automotive Relay Contact Arrangement	1 Form X (NO - DM)

Mechanical Attachment

Mounting Type	Printed Circuit Board
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Dimensions

Length Class (Mechanical)	25 – 30 mm
Width Class (Mechanical)	20 – 25 mm
Height	19.3 mm[.76 in]
Height Class (Mechanical)	16 – 20 mm
Length	25.55 mm[1.006 in]
Width	20.7 mm[.815 in]

Usage Conditions

Environmental Ambient Temperature Class	-40 – 85 °C
Environmental Ambient Temperature (Max)	85 °C[185 °F]

Other

Mounting Brackets	Without
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Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2022 (223) Candidate List Declared Against: JAN 2018 (181) SVHC > Threshold: Not Yet Reviewed
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Wave solder capable to 265°C

Product Compliance Disclaimer



This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

Also in the Series | Mini K HV Precharge Relay



Automotive High Voltage Relays(2)

Customers Also Bought



TE Part #2-6437630-0
FTD0904=MINIATURE TOGGLE



TE Part #2141227-1
2POS,PIN DIA 8.0,PIN HSG,ASSY,SLD



TE Part #174055-2
SIGNAL HEADER



TE Part #2336813-2
TAB 2,8X0,8 ACT PIN



TE Part #2203194-1
EVC135, RELAY, SPST NO



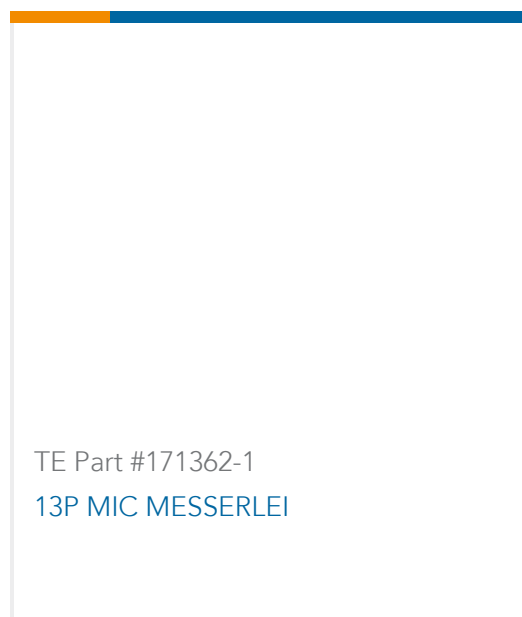
TE Part #152435-000
CWT-5-W122-5



TE Part #2306649-1
V23720A0002A001-SZ-CBOX



TE Part #171363-1
MULTI INTERLOCK CONN HSG



Documents

Product Drawings

[V23700C0001A408-EV-CBOX](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_2-1904058-5_A_c-2-1904058-5-a.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2-1904058-5_A_c-2-1904058-5-a.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2-1904058-5_A_c-2-1904058-5-a.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[Automotive Relay Application Notes](#)

English

[High Voltage Relays & Contactors, High Voltage Relay, Mini K HV Precharge Relay](#)

English

Product Specifications

[Definitions, Handling, Processing, Testing and Use of Relays](#)

English