



Mini K HV Precharge Relay

TE Internal #: 2-1904058-5

Automotive High Voltage Relays, 12VDC Coil Voltage Rating, <20A

Contact Current Class, Without Parallel Resistor, Mini K HV

Precharge Relay

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Relays & Contactors > Relays > Automotive Relays > Automotive High Voltage Relays



Coil Voltage Rating: 12 VDC

Contact Current Class: <20 A

Coil Suppression Method: Without Parallel Resistor

Contact Voltage Rating: 400 VDC

Contact Limiting Breaking Current: 20 A

Features

Electrical Characteristics

Insulation Initial Dielectric Between Coil & Contact Class	500 – 1000 V
Insulation Initial Dielectric Between Contacts and Coil	2000 Vrms
Insulation Initial Dielectric Between Open Contacts	2000 Vrms
Contact Limiting Making Current	20 A
Coil Suppression	Without Resistor in Parallel
Contact Switching Voltage (Max)	450 VDC
Coil Resistance	50 Ω
Coil Power Rating DC	2900 mW
Coil Magnetic System	Monostable - DC
Coil Voltage Rating	12 VDC
Coil Suppression Method	Without Parallel Resistor
Contact Voltage Rating	400 VDC
Contact Limiting Breaking Current	20 A

Body Features

Product Weight	17 g[.6 oz]
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Contact Features

Contact Base Material	Silver Alloy
Contact Current Class	<20 A



Contact Arrangement	1 Form X (NO - DM)
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Mechanical Attachment

Product Mount Type	Printed Circuit Board
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Dimensions

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

Usage Conditions

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

Other

Solder Process	Wave Solder
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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: JUNE 2023 (235) Candidate List Declared Against: JUNE 2023 (235) Does not contain REACH SVHC
Halogen Content	BFR/CFR/PVC Free, but Br/Cl >900 ppm in other sources.
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 Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts

TE Part # 2-1904058-7
V23700F0002A408-EV-CBOX

Also in the Series | Mini K HV Precharge Relay

Automotive High Voltage Relays(2)

Customers Also Bought

TE Part #1-917338-3
DYNAMIC 3200 VERTI. HDR ASY 4P

TE Part #173691-1
PL 187 REC 20-16 AWG 0.3 X 14.0
PTBR

TE Part #185226-2
Signal Header

TE Part #3-1419158-0
GET .64 CONNECTOR SYSTEM,
CONNECTOR HSG

TE Part #1703727-1
2POS,JPT,HOUSING,ASSY,BK

TE Part #1452839-5
24 POS FEMALE HSG ASSY

TE Part #2306649-1
V23720A0002A001-SZ-CBOX

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

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Datasheets & Catalog Pages

Automotive Relay Application Notes

English

High Voltage Relays & Contactors, High Voltage Relay, Mini K HV Precharge Relay

English

Product Specifications

Definitions General Purpose Relays

English