

Voltage Relay CVR-1500

The CVR-1500 module employs a low-power electronic circuit in combination with a standard signal relay. It is self-powered from the high-voltage side and uses its internal circuitry to control relay output, enabling galvanically isolated signal output for high-voltage DC monitoring applications.

Parameters

Electrical Specifications

- Pick-Up Voltage: 1100VDC \pm 5%, Response Time<30ms
- Drop-Out Voltage: 850VDC \pm 5%, Response Time<30ms
- Maximum Operating Voltage: 2200VDC
- Rated High Voltage: 1500VDC
- Output Contact Type: 1NC(MR-R), 1NO(MT-T)
- Contact Rated Voltage: 110VDC(77VDC~137.5VDC)
- Contact Load Capacity: 110VDC, 0.24A
- Electrical Life: >500,000 operations (@125VDC/0.24A)
- Mechanical Life: 100,000,000 operations
- Contact Resistance: <50m Ω

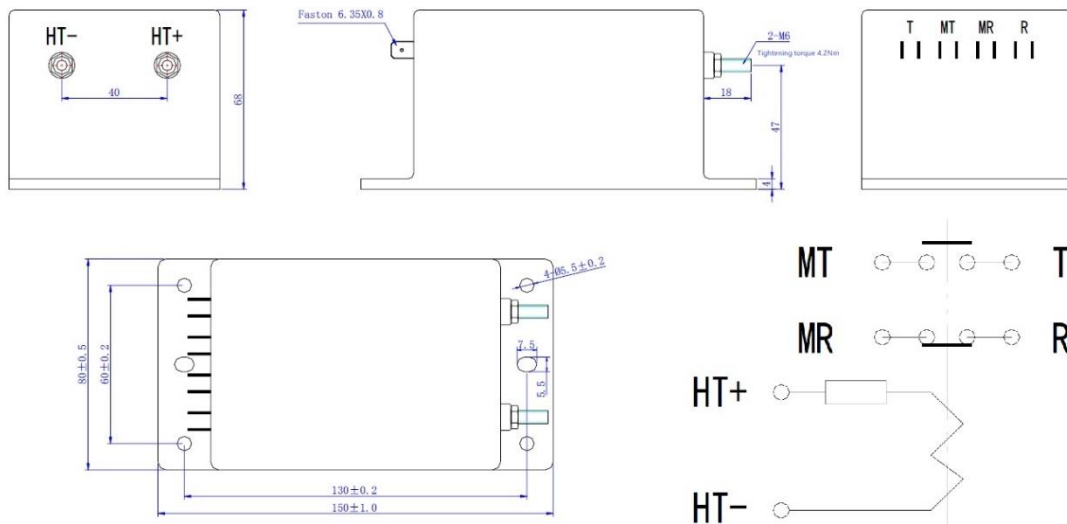
Insulation Characteristics

- Insulation Resistance \geq 100M Ω
- Withstand Voltage:
 - High voltage terminals (HT+/HT-) to contacts (T, MT, R, MR) & mounting plate:
8KV/50Hz/1min
 - Contacts to mounting plate: 2KV/50Hz/1min
 - Between contact sets: 1.8KV/50Hz/1min

General Data

- Operating Temperature: $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Storage Temperature: $-45^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Relative Humidity: $\leq 95\%$ (monthly average, at $\geq 25^{\circ}\text{C}$)
- UL94-V0 flame-retardant engineering plastic housing
- Weight: $\leq 1000\text{g}$
- Mounting: M5 screw, recommended torque 4 N·m
- Compliant with GB/T 25119 Railway Vehicle Electronic Equipment standard

Outline & Interface



- High-Voltage Terminals: M6 studs, recommended tightening torque 4.2 N·m
- Low-Voltage Terminals (T, MT, R, MR): FASTON 6.35 × 0.8 mm quick-connect tabs