

Misensor Reed Relays Catalog (MSIP / SIP / DIL / MR / HVR / HG Series)

Miniature, High-Voltage & Mercury-Wetted Reed Relays for ATE, Instrumentation & EV

Product Overview

Misensor Reed Relays are engineered for switching applications requiring ultra-low and stable contact resistance, low capacitance, high insulation resistance (>10¹² Ohm), long operating life, and compact PCB footprint. Available in MSIP, SIP, DIL, MR, High-Voltage HVR/HVFR (up to 20kV), and Bounce-Free Mercury-Wetted HG series.

Key Features

- Epoxy molded or metal-shielded packages
- Form 1A, 2A, 4A, 1B, 1C, and Latching options
- Optional internal clamping diode & magnetic shield
- High-voltage series rated from 1kV to 20kV DC
- Mercury-wetted bounce-free series up to 100W/5A
- Custom pinouts and coil voltages (3V, 5V, 12V, 24V)

Typical Applications

- IC & mixed-signal Automatic Test Equipment (ATE)
- Cable harness & PCB insulation testing matrices
- EV Battery Management Systems (BMS) & chargers
- Medical electronics, RF & telecommunications
- Solar photovoltaic & high-voltage instrumentation

Technical Specifications & Model Selection

Series	Package Type	Contact Form	Rated Power	Max Switching Voltage	Min Breakdown Voltage	Coil Voltage
MSIP Series	Mini Single-in-Line	1A, 2A	10W	200V DC	250V DC	5V, 12V
SIP Series	Single-in-Line	1A, 1B, 1C	10W / 15W	200V-500V DC	300V-1500V DC	5V, 12V, 24V
DIL Series	Dual-in-Line	1A, 2A, 1B, 1C, 2C	10W	200V DC	250V-500V DC	5V, 12V, 24V
MR / NMR	Ultra-Miniature	1A	10W	200V DC	250V DC	5V, 12V, 24V
SIP-HV	High-Voltage SIP	1A	10W / 25W	1000V DC	3000V-4000V DC	5V, 12V, 24V
HVR 4kV-6kV	HV Module	1A, 2A, 1B	50W	3500V-4500V DC	4000V-6000V DC	5V, 12V, 24V
HVR 10kV-20kV	Ultra-HV Module	1A, 2A, 1B	50W / 200W	7500V-10000V DC	10000V-20000V DC	5V, 12V, 24V
HGSR / HGFR	Mercury-Wetted	1A, 2A, 1C	50W / 100W	500V-1500V DC	1000V-4000V DC	5V, 12V, 24V