

High Voltage / High Current Reed Relays

DESCRIPTION

A full spectrum of sizes, power, and high voltage switching options are just a few features offered, among the seven types of MEDER High Voltage/ High Current Reed Relays. Switching voltages as high as 10kVDC and breakdown voltages to 15kVDC. Continuous carry currents up to 15 Amps and pulsed currents 30 Amps.

FEATURES

- Single pole single throw
Normally open (1 Form A),
Normally closed (1 Form B)
- Double pole single throw
Normally open (2 Form A)
- Switching voltages 0-10kVDC
- Breakdown voltages up to 15kVDC
- High voltage termination wire available
- PCB mounting
- Hermetically sealed switches with epoxy encapsulation
- Dynamically tested contacts
- Millions of reliable operations
- Carry currents up to 15 Amps continuous (with higher pulsed currents)



Seven High Voltage/High Current Series offering an array of switching options!

MEDER electronic features a full line of reed relays offering high voltage and high power configurations for PCB mount or free-standing applications. MEDER High Voltage Reed Relays are designed to switch high voltages, stand off even higher voltages, and carry very high current levels.

APPLICATIONS

- **H Series-** Cable Test Equipment, Defibrillators, Electrosurgical Generator used with Electronic Scalpel for Electrocauterization, Replacement of Mercury Wetted Relays
- **HF Series-** Radio Transmitters 1 MHz to 30 MHz, Communication Equipment, Antenna Transmitter and Receive applications
- **HE / HM Series-** Cable Test Equipment, Defibrillators, Electrosurgical Generator used with Electronic Scalpel for Electrocauterization, Replacement of Mercury Wetted Relays
- **MRE Series-** Automated Test Equipment, Portable Defibrillators, General Purpose Electronic Test Equipment
- **LI Series-** Automated Test Equipment, Portable Defibrillators, General Purpose Electronic Test Equipment, Replacement of Mercury Wetted Relays
- **SIL HV Series-** Automated Test Equipment, Portable Defibrillators

These series feature switching voltages up to 10,000 VDC and breakdown voltages to 15,000 VDC with 1,000 Gigohms between coil and contact. The relays can carry current up to 15 Amps continuous and 30 Amps pulsed. Mounting include PCB mount or axial high voltage leaded versions.

HIGH VOLTAGE / HIGH CURRENT SERIES PACKAGING

Series	Packaging	Contact Configurations	Dimensions L x W x H (mm)
H	Specially packaged coil with a PCB pin out for the coil only. The switch contacts are available for direct wiring (sky wiring)	SPST / 1 Form A - Normally Open	82 x 18 x 30
HF		SPST / 1 Form B - Normally Closed	65 x 14.5 x 15.8
HE	Epoxy encapsulated with many PCB pin configurations available. Options include high voltage wires available for direct wiring of the high voltage leads	SPST / 1 Form A - Normally Open	67 x 19 x 20
HM		DPST / 2 Form A - Normally Open SPST / 1 Form B - Normally Closed	68 x 19.8 x 19.5
MRE	Smaller epoxy encapsulated with many PCB pin configurations: up to 4 contacts	SPST / 1 Form A - Normally Open SPST / 1 Form B - Normally Closed DPST / 2 Form A - Normally Open MPST / 3-4 Form A - Normally Open	30 x 10 x 10.4
LI	Smaller epoxy encapsulated with many PCB pin configurations	1 Form A - Normally Open	30 x 14.5 x 10
SIL HV		1 Form A - Normally Open	24 x 6.4 x 8.9 (in-line pin out) 29 x 6.4 x 8.9 (offset pin out)

HIGH VOLTAGE / HIGH CURRENT SERIES OPERATING CHARACTERISTICS

Series	Coil Voltage	Breakdown Voltage	Switching Voltage	Switching Current	Carry Current 100% Duty Cycle	Pulsed Current 10µs typ	Power
	(VDC)	Max (VDC)	Max (A)	Max (A)	Max (A)	Max (A)	Max (W)
H	12, 24	15,000	10,000	3.0	Up to 15	30	50
HE	5, 12, 24	15,000	10,000	3.0	Up to 15	30	50
HF	5, 12, 24	15,000	10,000	3.0	Up to 5 at 30 MHz	30	50
HM	5, 12, 24	15,000	10,000	3.0	Up to 15	30	50
LI	5, 12, 24	4,000	1,000	1.0	Up to 5	10	100
MRE	5, 12, 24	4,000	1,000	1.0	Up to 5	10	100
SIL HV	5, 12	4,000	1,000	1.0	Up to 5	10	100

