

## ***MTJ SERIES***

### ***Ideal for RJ11 and RJ45 Style Twisted Pair Interfaces***

The MTJ Series of surge protectors for RJ45 and RJ11 interfaces will ensure the reliable operation of Local and Wide Area Networks. We offer protection for LAN interface technologies such as Ethernet 10BASE T, 100BASE T, CDDI, 100VG-AnyLan and ATM155. For WAN and Telco applications we offer protection for environments including ISDN, T1, FT1, DDS, analog dial up modems, faxes and more. Additionally, our

Custom Products Division provides products for nonstandard or custom applications not included in our standard product offering.

#### ***MTJs OFFER***

- State-of-the-art, avalanche diode and Thyristor technology
- Compact, in-line installation
- High speed, high energy handling capability
- Low shunt capacitance to reduce signal loss

#### ***YOU BENEFIT WITH***

- Affordable, superior, equipment protection
- Improved reliability and maximized up-time
- Protection at the interface card
- Adaptability to most industry applications

The MTJ Series devices guard sensitive data networks against lightning induced surges, AC power interference, electrostatic discharge, and ground loop energies. Typical applications include: NIC's, switches, hubs, repeaters, bridges, routers, point of sale terminals, modems, fax machines, telephones and most other types of communications equipment utilizing RJ45 or RJ11 modular telephone jacks. High speed avalanche diode technology is used in conjunction with low capacitance circuitry enabling the protectors to function at a much greater bandwidth without causing signal degradation. Standard units are available with up to 8 wires protected on the RJ45 devices, and up to 6 wires protected on the RJ11 device. All this, in combination with their small size, makes the MTJ exceedingly versatile.

#### ***ORDERING INFORMATION***

To order an MTJ, choose the connector type depicted above that accommodates the system application and number of wires to be protected.

#### ***NOTE***

Special units can be supplied for any voltage between 7.5 V and 240 V. The following information must be specified when ordering special units:

1. Connector type and pin assignment  
(ex., RJ45 pins 1,2,7,8)
2. System application (ex., DDS, ISDN, Ethernet)

#### ***INSTALLATION***

To install, insert the protector in series between the incoming communication line and the I/O port of the equipment to be protected. The protector ground wire must be connected to the metal chassis of the equipment being protected. Units should be installed at both ends of the data cable for the most effective protection.

#### ***CAUTION!***

Ground wire must be grounded directly to the metal chassis of the equipment being protected. The equipment chassis must be connected to earth through a properly grounded AC power receptacle.

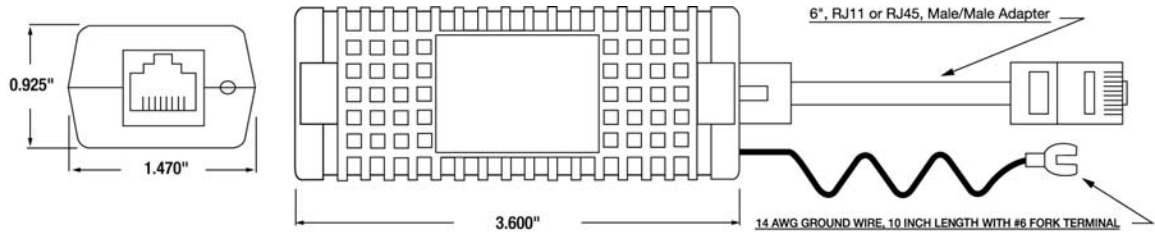
#### ***WARRANTY***

- 5 Year Replacement Program
- Limited Lifetime Warranty

This warranty applies only to serialized products registered with ALLTEC Corporation and is subject to certain disclaimers and limitations.

For a complete warranty statement, please contact ALLTEC Corporation. All specifications and dimensions are subject to change without notice.

### MTJ SERIES RJ45 AND RJ11 INTERFACES PROTECTION



### ELECTRICAL SPECIFICATIONS (CONTACT ALTEC FOR SPECIAL CONFIGURATIONS)

	10BASE T RS422 RS423	100BASE T ETHERNET ATM155	TOKEN RING RS232	CSU/DSU	ISDN DDS/T1	DIAL-UP MODEM/FAX/DSL
STD. CLAMP VOLTAGE	7.5 VOLTS	12 VOLTS	18 VOLTS	60 VOLTS	60 VOLTS	240 VOLTS
PEAK PULSE CURRENT 10/1000 us s.c. wave form @Vcl	132 AMPS	97 AMPS	60 AMPS	50 AMPS	50 AMPS	75 AMPS
RESPONSE TIME	----- LESS THAN 5 NANoseconds -----					
MAXIMUM SHUNT CAPACITANCE	<40pF	<25pF	<40pF	<75pF	<75pF	<95pF

### RJ-11 AND RJ-45 SYSTEM APPLICATION AND MODEL NUMBER

WIRES PROTECTED	10BASE T ETHERNET	100BASE T ETHERNET ATM155	RS422/TS423	TOKEN RING RS232	CSU/DSU	ISDN	DDS	T1	DIAL-UP MODEM-FAX
<b>RJ-11</b> 2 WIRE 2 CENTER PINS PROTECTED	X	X	X	X	X	X	X	X	MTJ02G/ RJ11
4 WIRE 4 CENTER PINS PROTECTED	X	X	MTJ04E/RJ11	X	X	X	X	X	MTJ04G/ RJ11
6 WIRE ALL PINS PROTECTED	X	X	MTJ06/RJ11	X	X	X	X	X	MTJ06G/ RJ11
<b>RJ-45</b> 1,2,3,6	MTJ04E/RJ45	X	X	X	X	X	X	X	X
1,2,4,5	X	X	X	X	X	X	X	MTJ-T1	X
1,2,7,8	X	X	X	X	X	X	MTJ-DDS	X	X
4 WIRE 4 CENTER PINS PROTECTED	X	X	MRJ04E/RJ45-0	MTJ04T/ RJ45	MTJ- ISDN*	MTJ- ISDN*	X	X	X
8 WIRE ALL PINS PROTECTED	MTJ/RJ45	MTJ-05 (no RJ45 m/m adapter provided)	MTJ08E/RJ45	MTJ08E/ RJ45	MTJ- DIGITAL	X	MTJ- DIGITAL	MTJ- DIGITAL	MTJ08G/ RJ45