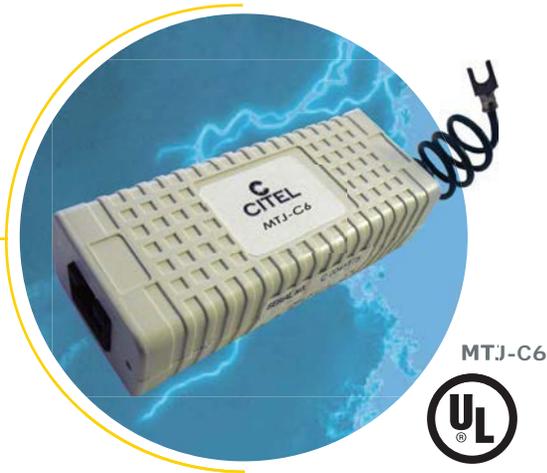


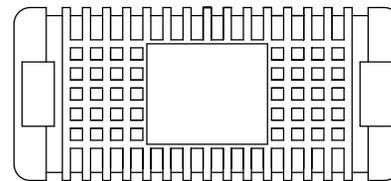
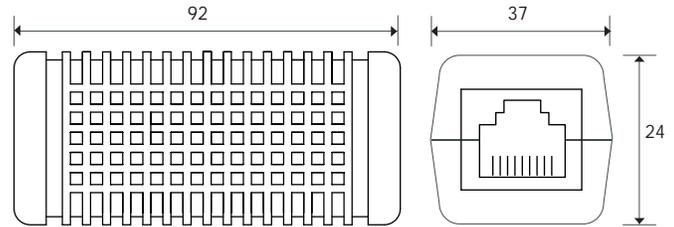


# DC Signal Line Surge Protectors

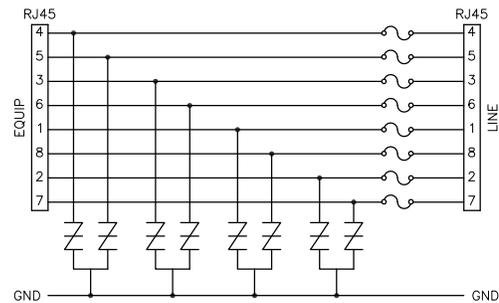
## MTJ Series



### Dimensions (in mm)



### Electrical Diagram



Transient surges can enter electronic equipment through any connection, not just the AC power line. Facilities with reliable AC power protectors can still experience surge-related system downtime. Transient surge energies from sources such as nearby lightning strikes, inductive load switching, ground loop currents, and electrostatic discharge are clamped by AC protectors into the shared communication ground, resulting in damage to expensive communication hardware.

Our MTJ series of surge protection devices cover the broadest range of infrastructure needs imaginable. From single line dial-up up to Category 6 Ethernet units, this CITEL series of products can insure that your infrastructure is protected. All of these devices exhibit an extremely fast response time of less than 5 nanoseconds. All these features and more make CITEL MTJ series of surge protectors the most cost effective and versatile devices of their kind available today.

### Characteristics

CITEL part number	MTJxxE/yy	MTJ-C5E	MTJxxT/RJ45	MTJ-ISDN	MTJ-DIGITAL	MTJ-DDS	MTJ-DSL	MTJ-T1	MTJxxG/yy	MTJ-C6 CAT6-PPC	MTJ-60V-POE-A	MTJ-60V-POE-B
Max. data rate	100 Mbps	1,000 Mbps	100 Mbps	40 Mbps	40 Mbps	40 Mbps	40 Mbps	40 Mbps	40 Mbps	1,000 Mbps	100 Mbps	100 Mbps
Max. DC Supply Voltage	7.5 Vdc	12 Vdc	18 Vdc	60 Vdc	60 Vdc	60 Vdc	240 Vdc	60 Vdc	240 Vdc	7.5 Vdc	60 Vdc	Pin 1,2,3,6: 7.5 Vdc Pin 4,5,7,8: 60 Vdc
Max. DC Supply Current	750 mA	750 mA	750 mA	750 mA	750 mA	750 mA	750 mA	750 mA	750 mA	750 mA	750 mA	750 mA
Peak Pulse Current (10/1000µs at Max DC Supply Voltage)	132 A	97 A	60 A	50 A	50 A	50 A	75 A	50 A	75 A	100 A	50 A	Pin 1,2,3,6: 132 A Pin 4,5,7,8: 50 A
Max. Shunt Capacitance	<40pF	<25pF	<40pF	<75pF	<75pF	<75pF	<95pF	<75pF	<95pF	<8pF (MTJ-C6) <5pF (CAT6-PPC)	<25pF (ethernet lines only)	<25pF (ethernet lines only)
Connectors available (yy)	RJ11 or RJ45	RJ45	RJ45	RJ45	RJ45	RJ45	RJ11	RJ45	RJ11 or RJ45	RJ45	RJ45	RJ45
Pins protected (xx) with RJ11	04 : 4 center 06 : All	N/A	N/A	N/A	N/A	N/A	All	N/A	02 : 2 center 04 : 4 center 06 : All	N/A	N/A	N/A
Pins protected (xx) with RJ45	04 : 1,2,3,6 08 : All	All	04 : 4 center 08 : All	4 center	All	1,2,7,8	N/A	1,2,4,5	04 : 1,2,3,6 08 : All	All	All	All
Applications	10 Base T Ethernet RS422, RS423	100 Base T RS485	RS232	ISDN, CSU/DSU	DDS, T1	DDS	DSL	T1	Dial Up, Modem, Fax	1,000 Base T Ethernet CAT6	Power over Ethernet, Mode A	Power over Ethernet, Mode B
Connections: - Input - Output	RJ11 / RJ45 Male RJ11 / RJ45 Female											
Pinout	6 pins for RJ11 connectors and 8 pins for RJ45 connectors											
Installation	Velcro Retainer											
Ground Connection	14 AWG Ground wire (11" long) with #10 fork lug											
Standard Compliance	UL497B IEEE 802-3af (transmission)											