



DC Signal Line Surge Protectors

DDP Series



The 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 DDP series of surge protection solutions is ideal for many space-constrained applications that are terminated with either RJ21 or RJ45 connectors. The RJ45 line of protectors offer styles up to 12 ports and protect many different protocols such as RS422, RS232, Ethernet, ISDN, and Telco. The RJ21 line is ideal for multiple Telco or ISDN lines coming into a building's PBX. CITEL now also offers a heavy duty version of the RJ21 protectors for the most demanding environments.

Dimensions (in mm)

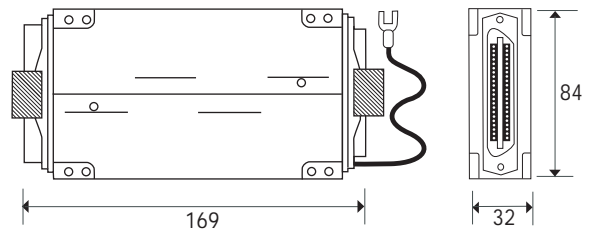


Figure A: Model DDP-25

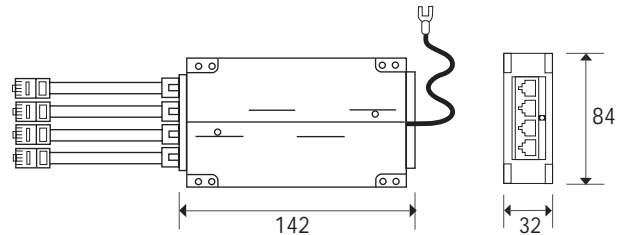


Figure B: Model DDP-H4

Characteristics

CITEL part number	DDP-xx-E	DDP-xx-E-C5	DDP-xx-T	DDP-xx-B	DDP-xx-G
Max. data rate	40 Mbps	100 Mbps	40 Mbps	40 Mbps	40 Mbps
Max. DC Supply Voltage	7.5 Vdc	7.5 Vdc	18 Vdc	60 Vdc	240 Vdc
Max. DC Supply Current	750 mA	750 mA	750 mA	750 mA	750 mA
Peak Pulse Current (10/1000µs at Max DC Supply Voltage)	132 A	132 A	60 A	50 A	75 A
Max. Shunt Capacitance	<40pF	<40pF	<40pF	<75pF	<95pF
Configurations available (xx)	25, H4, H8 or H12	H4, H8 or H12	25, H4, H8 or H12	25, H4, H8 or H12	25, H4, H8 or H12
Applications	10 Base T RS422 RS423 Ethernet	100 Base T	RS232 RS485	CSU / DSU Non Span T1	Dial-up Modem Fax
Connections depending of configuration (xx):	xx=25 (Fig.A) : RJ21/Telco Male (25 Pairs) to RJ21/Telco Female (25 Pairs) xx=H4 (Fig.B): 4 positions RJ45 Male (RJ11 available) Hub Protector to 4 positions RJ45 Female (RJ11 available) xx=H8 (Not shown): 8 positions RJ45 Male (RJ11 available) Hub Protector to 4 positions RJ45 Female (RJ11 available) xx=H12 (Fig.C) : 12 positions RJ45 Male (RJ11 available) Hub Protector to 12 positions RJ45 Female (RJ11 available)				
Pinout	8 pins (for xx=H4, H8 or H12) or 25 pins (for xx=25) per connector				
Installation	Velcro Retainer				
Ground Connection	14 AWG ground wire (10" long) with #8 fork lug				
Standard Compliance	IEEE 802-3af (transmission) UL497B				

Electrical Diagram

