
OVER-VOLTAGE SUPPRESSION UNIT

MODEL LI-2782BRE

For Ethernet Twisted Pair 10Base-T, 100Base-TX, or 100Base-T2 Signaling (also available for E1 paths)

PRODUCT DESCRIPTION AND INSTALLATION DETAILS

ACMA PERMIT

Design Two Thousand Pty Ltd ACA Supplier's Code N468

DESCRIPTION

The LI-2782BRE is an over-voltage suppression unit used to protect Ethernet hubs and switches, routers, megalinks etc. (data networks), and all elements upstream from the terminal equipment should dangerous voltages be accidentally imposed by faulty equipment or wiring. The LI-2782BRE is an electrical safety barrier.

Each Over-Voltage Suppression card PC-4887 used in the LI-2782BRE is used to protect the Tx and Rx pairs of a 10 or 100 Mbps Ethernet hub port from improper voltages such as mains 240Vac rms. This voltage may originate either from connected equipment or its data path cabling. Connections are made via two RJ45 sockets identified as 'Equip' and 'Line' and a MANDATORY earth connector.

Each card complies with AS3260 1998 Appendix G where less than 3.5mA rms of earth leakage current can flow when all four 'Equipment' wires are connected simultaneously to 240V ac rms (which would be the worst case fault condition).

Up to 10 cards may be fitted into a two unit high 19 inch half depth rack mounting case. In this configuration, the RJ45 connectors are accessible from the front while a screw terminal on the back panel provides a group earth.

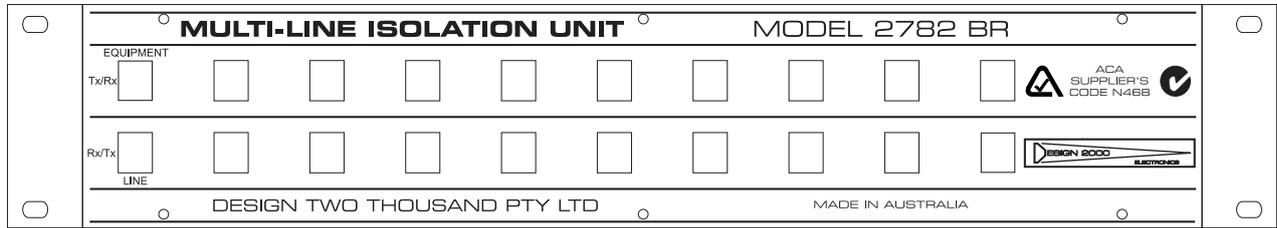
A fully equipped sub-rack provides up to ten four wire 100Ω clamping circuits transparent to data transmitted between 10 and 100 Mbps.

In summary, the LI-2782BRE guards against dangerous voltages being passed from Customer Equipment to a data network. In doing so it reduces the risk of electric shock to persons should dangerous voltages be accidentally imposed from the Customer (terminal) equipment.

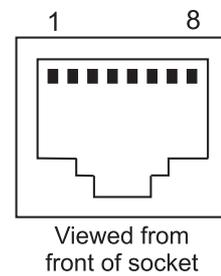
Please Note: The LI-2782BRE can also be ordered for 2Mbps 120 Ohm circuits (eg. E1 paths).

CONNECTION

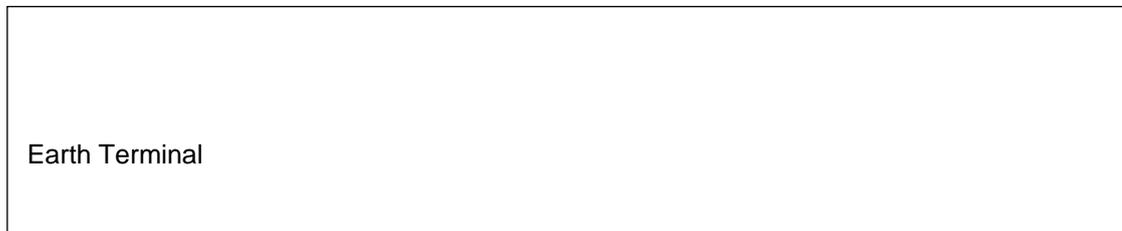
Front Panel



Equipment (SK1)	TXD +	Pair 3 (T568A)	Pin 1
	TXD -		Pin 2
	RXD+	Pair 2 (T568A)	Pin 3
	RXD-		Pin 6
Line (SK2)	TXD +	Pair 3 (T568A)	Pin 1
	TXD -		Pin 2
	RXD +	Pair 2 (T568A)	Pin 3
	RXD -		Pin 6

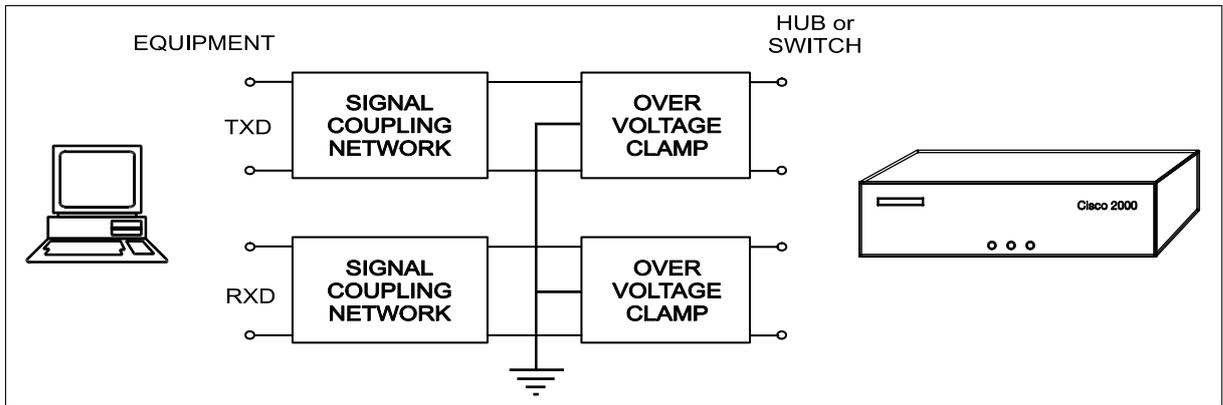


Rear Panel



Connect either of the two Earth terminals to a suitable ground point.

BLOCK DIAGRAM OF THE PC-4887



PART NUMBERS

RA-4795

PC-4887 100 Mbps

PC-4887 2 Mbps

LI-2782BR 2RU 19" Sub-rack

4w 100 Mbps Over-Voltage Suppression Card

4w 2 Mbps Over-Voltage Suppression Card

Designed and Manufactured in Australia

design2000

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