

## ST5-eT

Telecommunications Protector Modules

5 Pin Data Protector Series

Balanced Gas Discharge Tube/Electronic Current Limiter



### ETHERNET PROTECTION TECHNOLOGY:

LEA Networks ST5-eT Series 5 Pin modules utilize a state of the art low voltage balanced gas discharge tube and electronic current limiter technology to protect sensitive high speed data communications equipment from overvoltages and overcurrents (sneak currents) caused by lightning, electrostatic discharges, AC induction and AC power faults. The ST5-eT series 5 pin modules are always on guard protecting the infrastructure while remaining transparent to the data communications network, allowing for maximum speed and bandwidth without signal degradation. The ST5-eT is compatible with 10/100/1000Base-T protocols and supports Power over Ethernet.

### INDUSTRY COMPATIBILITY:

The ST5-eT series modules are compatible with any industry standard 5 pin protector block. Category 5e and higher performance is assured when using LEA Networks *Cat5 SmartWired*® Building Entrance Protectors. BEPs are available in a variety of pair counts and field/equipment connection types.

### FEATURES:

- Stops damaging transients without signal loss
- Reduces down time, network troubles and service calls
- Suitable for high speed networks, 10/100/1000Base-T rates
- Designed to meet Telcordia GR-974-CORE, NEC, and CSA requirements
- 6 year warranty (contact factory for details)
- Very low capacitance and capacitive unbalance
- When used with LEA Networks *Cat5 SmartWired*® BEPs, high speed performance is optimized.
- UL and cUL listed to UL497

### SAFETY AND COMPLIANCE:



Overvoltage breakdown is nominally 90V, and over current ratings are available at 100mA and 500mA ratings, and are self resetting. Modules are equipped with an internal balanced fail-short mechanism to ensure personnel safety and superior equipment protection in accordance with NFPA, UL and Telcordia requirements.

### A WORLDWIDE LEADER IN PROTECTION AND CONNECTIVITY PRODUCTS:

LEA Networks is a worldwide leader in splitter, Power Line Communication (PLC), and surge protection systems for the telecommunication industry. LEA Networks is ISO 9001:2008 registered, has extensive experience and a reputation for customer satisfaction, and is totally focused and committed to provide unmatched value in products and services to telecommunications network

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Over Voltage Performance	ST5x090eT100GN	ST5x090T500GN	Notes
DC Limiting Voltage	72-108 volts		DC to 2kV/second
Impulse Limiting Voltage	<300 volts		At 100V/microsecond
	<450 volts		At 1000V/microsecond
Impulse Surge Life	>1000 surges		10Amp, 10/1000usec
	>100 surges		100Amp, 10/1000usec
	>100 surges		500Amp, 10/1000usec
Impulse Reset (GDT)	<30 msec		Up to 500mA/52Vdc
Capacitance	<5 pF		At 1MHz, 0Vdc bias; Line to Line
	<10 pF		At 1MHz, 0Vdc bias; Line to Gnd
Insulation Resistance	>250 Mohm		At 50Vdc
Insertion Loss	<1.0dB	<0.5dB	Up to 250MHz
Return Loss	>20dB		Up to 40MHz
	>15dB		41-125MHz
	>10dB		126-250MHz
<b>Over Current Performance</b>			
Continuous DC Current Rating	100 mA min	500mA min	At 52Vdc
	150mA typical	750mA typical	
	200mA max	1000mA max	
Reaction Time	<1usec		At 2x max current rating, 25°C
Line Resistance	<10 ohms	<5 ohms	Each line
PoE Maximum Power Rating*	n/a	26W max	At 52Vdc, 25°C
Over Temperature Fail Short	Balanced, precision solder triggered copper ground bar		
Operating Temperature Range	-40°C to +65°C		

\*Maximum power rating of the access point

### Ordering Information (Part Numbers)

**ST5 0 090 eT100 GN**

LEA Networks 5 Pin Series

Housing Color/Application

- 0 - Black/Standard
- 2 - Red/Special Services
- 3 - Orange
- 4 - Yellow
- 6 - Blue
- 7 - Violet

Over Voltage Nominal Rating

090 - 90V

Test Access/Pin Plating

GN -no test ports, gold plating

Over Current Protection

eT100 - 100mA

eT500 - 500mA