

ST5-G SERIES

5 Pin Telecommunications Protection Modules

Balanced Gas Tube Technology

UL and cUL Listed

G.fast and VDSL compatible



GAS TUBE TECHNOLOGY:

LEA Networks ST5-G Series 5 Pin modules utilize state of the art balanced gas discharge tube and self resetting PTC technologies to protect the telecommunications network from overvoltages and overcurrents (sneak currents) caused by lightning, electrostatic discharges, AC induction and AC power faults. The ST5-G series 5 pin modules are always on guard protecting the infrastructure while remaining transparent to the telecommunications network, allowing for maximum speed and bandwidth without signal degradation.

INDUSTRY COMPATIBILITY:

The ST5 series 5 pin modules are compatible with LEA Networks connectivity systems or any other industry standard 5 pin protection blocks at central offices, remote terminals, building entrance terminals or customer premises installations.

HIGH FREQUENCY DESIGN ENABLES BEST PERFORMANCE PROTECTING G.FAST AND VDSL NETWORKS



FEATURES:

- Stops damaging transient without signal loss
- Reduces down time, network troubles and service calls
- Ideal for high speed networks, including G.fast, VDSL2 and category 5 rates
- Meets Telcordia GR-974-CORE, NEC and CEC requirements
- 6 year warranty (contact factory for details)
- Very low capacitance and capacitive unbalance
- Suitable for high exposure area and installation with high ground impedance
- UL and cUL listed to UL497



SAFETY AND COMPLIANCE:

Overvoltage breakdown is available in 220V or 300V ratings. Overcurrent (sneak current) protection rating is at 180mA and is self resetting. Each 5 pin module is equipped with an internal unbalanced fail-short mechanism to ensure personal 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. Being ISO 9001:2008 registered, LEA Networks has vast experience and a reputation for customer satisfaction in its field and is totally focused and committed to provide unmatched value in products and services to telecommunications network operators globally.

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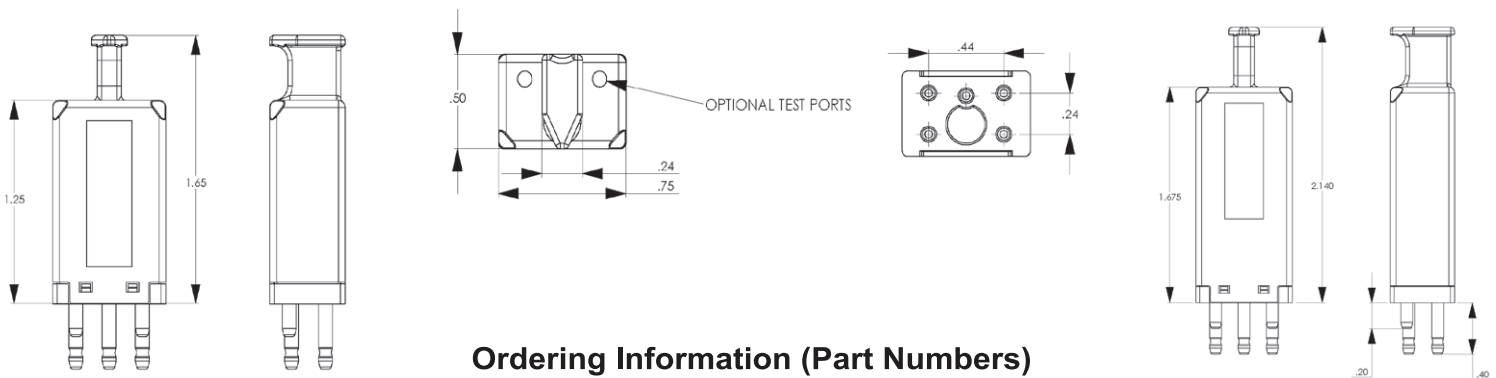
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Overvoltage Performance	230 V Type	300 V Type	Notes
DC Voltage Limiting	184 - 276 V	265 - 500 V	Up to 2000V/second
Impulse Voltage Limiting	< 450 V < 650 V	< 750 V < 900 V	100V/microsecond 1000V/microsecond
Impulse Surge Life	>1500 >100 >100	>1500 >100 >100	10A, 10x1000microsecond 100A, 10x1000microsecond 500A, 10x1000microsecond
Impulse Reset	Clears < 30msec	Clears < 30msec	Up to 825mA/140Vdc
Capacitance	<5pf	<5pf	Up to 1MHz, 0Vdc
Overcurrent Performance			
Hold Current	>180mA	>180mA	2 hours minimum
Activation Time	<210 seconds	<210 seconds	At 350mA
Line Resistance	< 4 Ohms	< 4 Ohms	Each line, 6.0 Ohms total loop
Line Imbalance	<0.5 Ohms	<0.5 Ohms	
Safety	Fast Acting unbalanced fail short mechanism		
Storage temperature	- 40 C to 85 C	- 40 C to 85 C	
Operating temperature	- 40 C to 85 C	- 40 C to 85 C	

All measured at 20 C



Ordering Information (Part Numbers)

ST5 0 300 G R015 T T	
LEA Networks 5 Pin	
Applications	
0 Standard Service/T1 (Black)	
1 High Exposure (Brown)	
2 Special Service (Red)	
3 Bridge Lifter (Orange)	
4 PBX Battery (Yellow)	
5 Denied Service (Green)	
6 T1/xDSL (Blue)	
7 Broadband (Violet)	
8 Pass Through (Grey)	
9 T-R Reverse (White)	
Overvoltage Protection	
000 No Overvoltage Protection	
220 220 Volts	
300 300 Volts	
Test Access	
T Test Ports	
N No Test Ports	
Pin Finish	
T Tin	
G Gold	
Overcurrent Protection	
N 000 No Overcurrent Protection (figure 1)	
R 015 Self Resetting over current protection (figure 2)	
Technology and Balance Option	
G Balanced Gas Tube	