

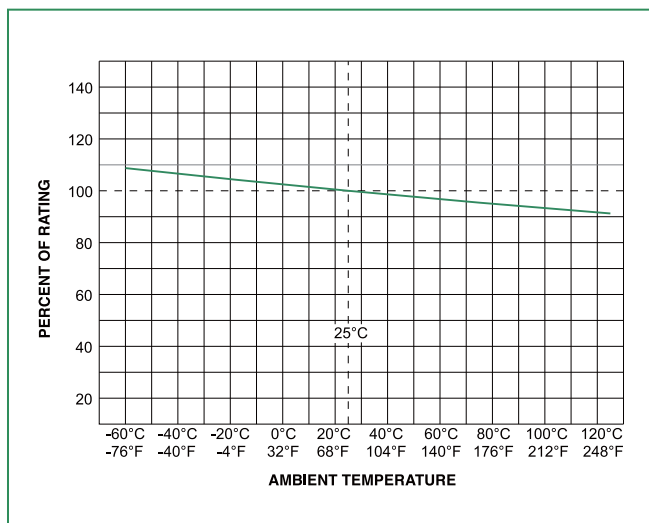
Electrical Specifications by Item

Ampere Rating (A)	Amp Code	Max Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I ² t (A ² sec)	Agency Approvals
1.25	1.25	600	60 amperes @600 VAC	0.112	14.2	 x

I²t is calculated at 10 msec or less. I²t at 10 times rated current has a typical value of 17 A²sec (1.25A)

Resistance is measured at 10% rated current.

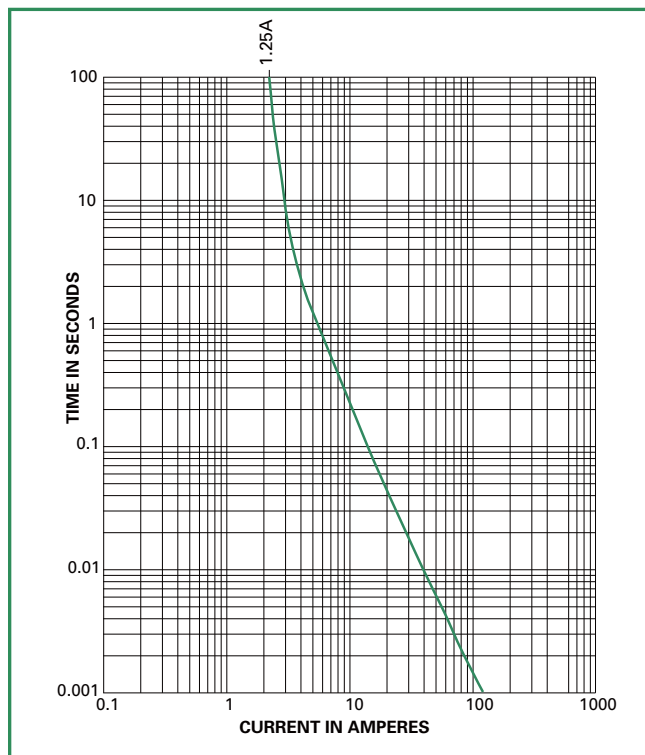
Temperature Derating Curve



Note:

- Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



GR 1089 Inter-Building Requirements

GR 1089 1st level lighting surge inter-building
(Equipment under test can not be damaged and must continue to operate properly)

Surge	Minimum Peak Voltage (V)	Minimum Peak Current (A)	Max. Rise/Min. Decay (μs)	Repetitions Each Polarity
1	600	100	10/1000	25
2	1000	100	10/360	25
3	1000	100	10/1000	25
4	2500	500	2/10	10
5	1000	25	10/360	5

GR 1089 2nd level lightning surge telecom port
(Equipment under test shall not become a fire or electrical safety hazard)

Surge	Minimum Peak Voltage (V)	Minimum Peak Current (A)	Max. Rise/Min. Decay (μs)	Repetitions Each Polarity
1	5000	500	2/10	1
Alternative	5000	500/8=625	8/10	1

The 1.25 will not open thus providing operational compliance.

GR 1089 AC power fault 1st level inter-building (fuse not allowed to open)

Test	Vrms	Short Circuit Current (A)	Hits	Duration	Primary Protector
1	50	0.33	1	15 min.	removed
2	100	0.17	1	15 min.	removed
3	200,400,600	1	60	1 sec.	removed
4	1000	1	60	1 sec.	operative
5	Diagram	Diagram	60	5 sec.	removed
6	600	0.5	1	30 sec.	removed
7	440	2.2	5	2 sec.	removed
8	600	3	1	1.1 sec.	removed
9	1000	5	1	0.4 sec.	in place

GR 1089 AC power fault 2nd level (fuse can open but must open in a safe and controlled manner)

Test Circuit	Vrms	Short Circuit Current (A)	Duration
1	120,277	25	15 min.
2	600	60	5 sec.
3	600	7	5 sec.
4	100-600	2.2	15 min.
5	Diagram	Diagram	15 min.

Fuse must open before wiring simulator fuse (MDL 2.0).

TIA -968-A (formerly FCC Part 68) Surge Waveforms (fuse can not open during type B events)

Surge	Voltage (V)	Waveform (μs)	Current (A)	Reps
Metallic A	800	10 x 560	100	1 ea. polarity
Longitudinal A	1500	10 x 160	200	1 ea. polarity
Metallic B	1000	9 x 720	25	1 ea. polarity
Longitudinal B	1500	9 x 720	37.5	1 ea. polarity

For the type A events the fuse will not open, providing for operational compliance with TIA-968-A type A surge events.

UL 60950 requirements

UL60950 (EN 60950) (formerly UL 1950) Power Cross

(L = longitudinal, M = metallic)

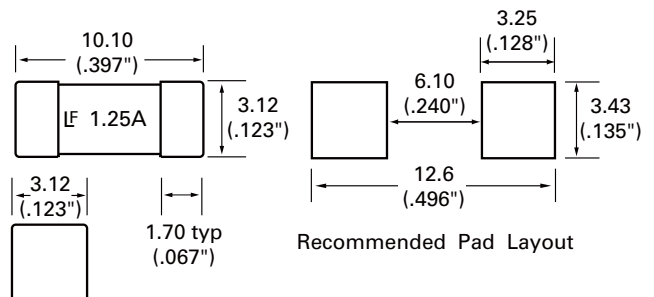
Test Number	Voltage (V)	Current (A)	Time
L1	600	40	1.5 sec.
L2	600	7	5 sec.
L3	600	2.2	30 min.
L4	200	2.2	30 min.
L5	120	25	30 min.
M1	600	40	1.5 sec.
M2	600	7	5 sec.
M3	600	2.2	30 min.
M4	600	2.2	30 min.

Selection of test number depends on current limiting F fire enclosure/spacing of end product

- 26 AWG line cord removes L1/M1 test requirement
- L5 conducted only if product does not pass section 6.1.2
- L2,M2,L3,M3,L4,M4 conducted if not in a fire enclosure

Fuse must open before the wiring simulator fuse (MDL 2.0).

Dimensions

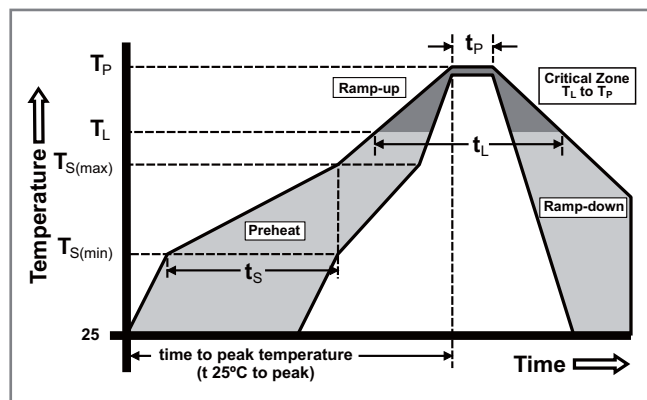


UL60950 (EN 60950) (formerly UL 1950) Impulse Test and Steady-State Electric Strength Test

Test	Voltage (V)	Current (A)	Waveform	Repetitions
Impulse				
For handheld units	2500	62.5	10 x 700ms	-/+ 10 w/60 Sec. rest
Non handheld	1500	37.5	10 x 700ms	-/+ 10 w/60 Sec. rest
Steady-State				
For handheld units	1500		60Hz	
Non handheld	1000		60Hz	

Soldering Parameters

Reflow Condition		Pb – Free assembly
Pre Heat	- Temperature Min ($T_{s(min)}$)	150°C
	- Temperature Max ($T_{s(max)}$)	200°C
	- Time (Min to Max) (t_s)	60 – 120 Seconds
Average ramp up rate (Liquidus Temp (T_L) to peak		5°C/Sec. Max.
$T_{s(max)}$ to T_L - Ramp-up Rate		5°C/Sec. Max.
Reflow	- Temperature (T_L) (Liquidus)	217°C
	- Temperature (t_L)	60 – 90 Seconds
Peak Temperature (T_P)		250 ^{+0/-5} °C
Time within 5°C of actual peak Temperature (t_p)		20 – 40 Seconds
Ramp-down Rate		6°C/Sec. Max.
Time 25°C to peak Temperature (T_P)		8 Minutes Max.
Do not exceed		260°C



Product Characteristics

Materials	Body: Ceramic Terminations: Silver-plated Caps
Product Marking	Brand Logo, Ampere Rating
Operating Temperature	-55°C to +125°C
Moisture Sensitivity Level	Level 1, J-STD-020C

Thermal Shock	MIL-STD-202, Method 107, Test Condition B, 5 cycles, -55°C to +125°C, 15 minutes @ each extreme
Mechanical Shock	MIL-STD-202, Method 213, Test Condition I – Sawtooth Waveform 6ms duration, 100G's peak
Vibration	MIL-STD-202, Method 201, 10 - 55hz, 1 minute
Moisture Resistance	MIL-STD-202, Method 106, 10 cycles
No Load Humidity	Mil Std 202, Method 103; 1000 hours, 85oC/85% RH

Part Numbering System

	0461	1.25	E	E	R
SERIES	_____	_____	_____	_____	_____
AMP Code	_____	_____	_____	_____	_____
Enhanced TELELINK®	_____	_____	_____	_____	_____
QUANTITY Code	_____	_____	_____	_____	_____
E = 2500 pcs					
PACKAGING Code	_____	_____	_____	_____	_____
R = Tape and Reel					

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
24mm Tape and Reel	EIA RS-481-2 (IEC 286, part 3)	2500	ER