

## Specification Status: Released

### Maximum Electrical Rating

**Operating Voltage: 20Vdc**

**Interrupt Current: 100A**

Chip Size: 8 x 33mm

Leads: Nickel 1/2H

0.3mm nominal thickness

Tape: Polyester (White)

35 mm nominal width

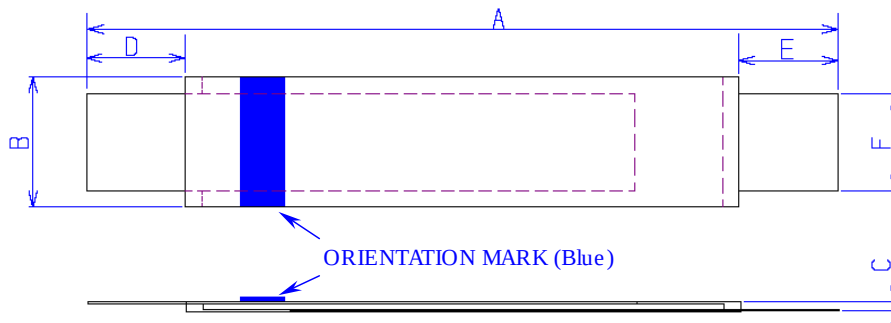
Solder: Lead-free

Marking (Color: Green) :

— Manufacturer's Mark

XX E90 — Part Identification

□□□□ — Lot Identification



**TABLE I. DIMENSIONS:**

|      | A      |        | B      |        | C      |        | D      |        | E      |        | F      |        |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|      | MIN    | MAX    | MIN    | MAX    | MIN    | MAX    | MIN    | MAX    | MIN    | MAX    | MIN    | MAX    |
| Mm:  | 45.4   | 47.6   | 7.9    | 8.5    | 0.9    | 1.3    | 4.6    | 6.2    | 4.6    | 6.2    | 5.9    | 6.1    |
| In*: | (1.79) | (1.87) | (0.31) | (0.33) | (0.04) | (0.05) | (0.18) | (0.24) | (0.18) | (0.24) | (0.23) | (0.24) |

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS: As measured in Mueller Kelvin Clips model BU-75K.**

| I HOLD    | CURRENT TRIP LIMITS |      |              |      |              |      |              |      | TIME TO TRIP           |     | REFERENCE RESISTANCE |       | ONE-HOUR POST-TRIP RESISTANCE |       | TRIPPED-STATE POWER DISSIPATION |
|-----------|---------------------|------|--------------|------|--------------|------|--------------|------|------------------------|-----|----------------------|-------|-------------------------------|-------|---------------------------------|
| AMPS 20°C | AMPS AT 0°C         |      | AMPS AT 20°C |      | AMPS AT 60°C |      | AMPS AT 70°C |      | SECONDS AT 20°C, 45.0A |     | OHMS AT 20°C         |       | OHMS AT 20°C                  |       | WATTS AT 20°C, 20V              |
| HOLD      | HOLD                | TRIP | HOLD         | TRIP | HOLD         | TRIP | HOLD         | TRIP | MIN                    | MAX | MIN                  | MAX   | MIN                           | MAX   | MAX                             |
| 9.0       | 10.0                | 18.7 | 9.0          | 16.7 | 6.2          | 11.6 | 5.5          | 10.3 | ---                    | 5   | 0.006                | 0.010 | 0.006                         | 0.014 | 3.8                             |

Agency Recognitions:

UL, TUV, CSA

Reference Documents:

PS300

Precedence:

This specification takes precedence over documents referenced herein.

Effectivity:Reference

documents shall be the issue in effect on the date of invitation for bid.

CAUTION:

Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.

### MATERIALS INFORMATION:

**ROHS Compliant**

**ELV Compliant**

**Pb-Free**

Directive 2002/95/EC  
Compliant

Directive 2000/53/EC  
Compliant



**PolySwitch®**  
**PTC Devices**  
Overcurrent Protection Device

**PRODUCT: LR4-900F**

DOCUMENT: SCD25964  
REV LETTER: D  
REV DATE: JULY 26, 2016  
PAGE NO.: 2 OF 2

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