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# ACR-0671-1989

PRODUCT DATA SHEET – PAGE 1 OF 2

## 8.938" SINGLE BANK LED RAIL

(Single Bank, 67V @ 75mA)

02/09/12

### GENERAL DESCRIPTION

The ACR-0671-1989 is designed as a replacement for field replaceable, dual tube, single edge lit 10.4" CCFL displays. The rail utilizes protection circuits to ensure the whole rail will not fail in the unlikely event of an individual LED failure.

The rail requires the use of a constant current source to properly drive the LED's.

The LED rail is compatible with any of ACI's I-Drive series of LED Drivers.

### MECHANICAL / ENVIRONMENTAL

Weight = 5 grams

Altitude = 35,000 Ft maximum

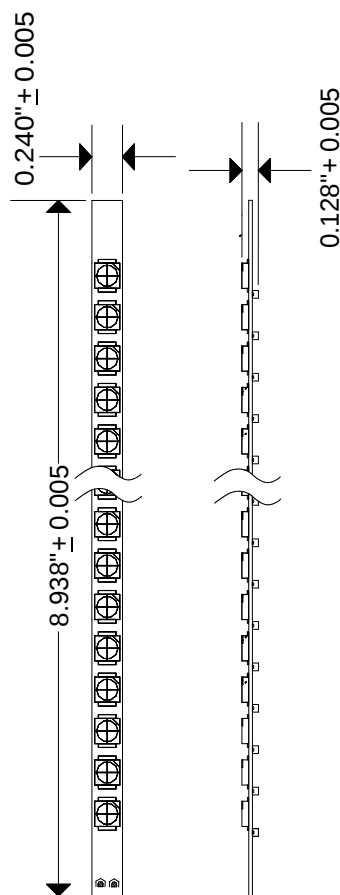
Humidity < 95% non-condensing

Size (L x W x H) = 8.938 IN x 0.240 IN x .062 IN

PCB thickness = 0.032 IN

Input connector = CON1

RoHS compliant



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PRODUCT DATA SHEET – PAGE 2 OF 2

## MAXIMUM RATINGS

02/09/2012

| Symbol | Parameter                                                    | Value       | Unit  |
|--------|--------------------------------------------------------------|-------------|-------|
| Tled   | Operating temperature of LED edge light (light rail contact) | -40 to +100 | Deg-C |
| Tstg   | LED Rail storage temperature                                 | -40 to +100 | Deg-C |
| Ifwd   | Maximum LED edge-light forward current (DC)                  | 90          | mA    |

## LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

| Symbol | Parameter          | Test Conditions | Min | Typ   | Max | Unit |
|--------|--------------------|-----------------|-----|-------|-----|------|
| BL     | LED Brightness     | Ifwd = 350mA    | 112 | 125   | 138 | Lm   |
| X      | White X coordinate |                 |     | 0.344 |     | -    |
| Y      | White Y coordinate |                 |     | 0.355 |     | -    |

## LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 75.0mA (1 banks per rail), Tled = +75Deg-C (LED's without heat sinking to the display)

| Symbol | Parameter                     | Test Conditions | Min | Typ | Max | Unit |
|--------|-------------------------------|-----------------|-----|-----|-----|------|
| Vfwd   | LED rail forward voltage drop |                 | 60  | 67  | 74  | Vdc  |

## TYPICAL LED RAIL PERFORMANCE GRAPHS

