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# ACR-0951-1661

PRODUCT DATA SHEET – PAGE 1 OF 2

## 10.25" SINGLE BANK LED RAIL

(Single Bank, 95V @ 125mA)

5/22/08

### GENERAL DESCRIPTION

The ACR-0951-1661 is designed as a replacement for field replaceable, dual tube, single edge lit 12.1" 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 both the I-Drive2 and I-Drive3 LED driver platforms.

### MECHANICAL / ENVIRONMENTAL

Weight = 7.1 grams

Altitude = 35,000 Ft maximum

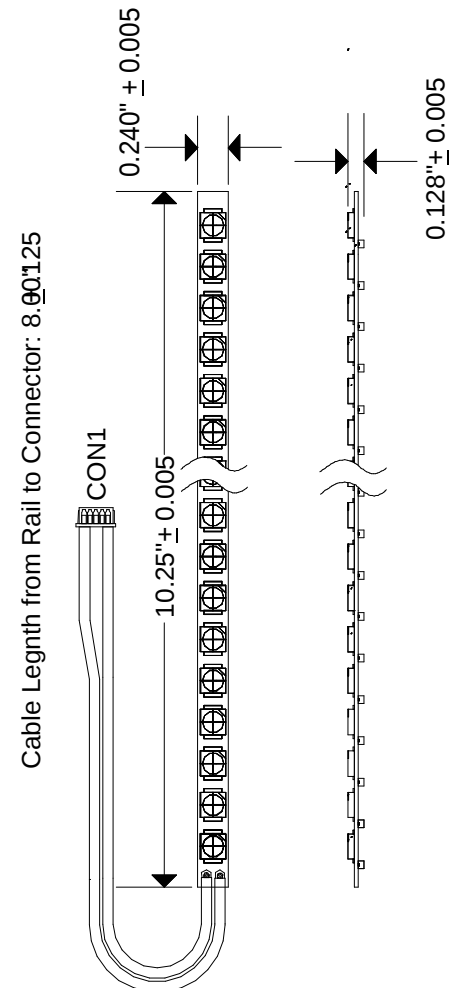
Humidity < 95% non-condensing

Size (L x W x H) = 10.25 IN x 0.240 IN x 0.128 IN

PCB thickness = 0.030 IN

Input connector = CON1

RoHS compliant



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PRODUCT DATA SHEET – PAGE 2 OF 2

## MAXIMUM RATINGS

5/22/08

| Symbol | Parameter                                                    | Value       | Unit  |
|--------|--------------------------------------------------------------|-------------|-------|
| Tled   | Operating temperature of LED edge light (light rail contact) | -20 to +75  | Deg-C |
| Tstg   | LED Rail storage temperature                                 | -40 to +105 | Deg-C |
| Ifwd   | Maximum LED edge-light forward current (DC)                  | 150         | Ma    |

## LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

| Symbol | Parameter          | Test Conditions | Min | Typ   | Max | Unit |
|--------|--------------------|-----------------|-----|-------|-----|------|
| BL     | LED Brightness     | Ifwd = 350 mA   | 61  | 66    | 72  | Lm   |
| X      | White X coordinate |                 |     | 0.318 |     | -    |
| Y      | White Y coordinate |                 |     | 0.317 |     | -    |

## LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 125mA, 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 |                 | 86  | 95  | 105 | Vdc  |

## TYPICAL LED RAIL PERFORMANCE GRAPHS

