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# ACR-2423

PRODUCT DATA SHEET – PAGE 1 OF 2

## 9.56" QUAD BANK LED RAIL

(QUAD Bank, 26 V @ 110 mA)

07/02/2014

### GENERAL DESCRIPTION

The ACR-2423 is designed as a replacement for single edge lit 10.4" displays.

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.

LED includes built in Zener Diode which protects against a single LED failing the entire bank.

### MECHANICAL / ENVIRONMENTAL

Weight = 3 grams

Altitude = Tested to 55,000 Ft for 10 minutes

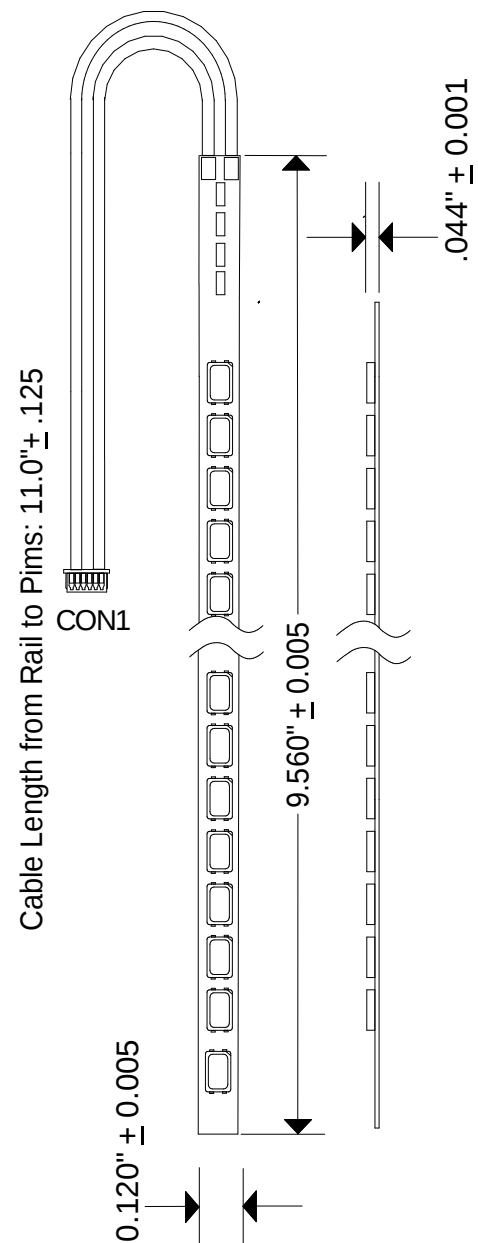
Humidity < 95% non-condensing

Size (L x W x H) = 9.56 IN x 0.120 IN x .044 IN

Flex Rail Thickness = .006 IN

RoHS compliant

Current Sharing Resistors are used to insure the current is shared equally among the LED banks, allowing for no uniformity loss as the panel ages.



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PRODUCT DATA SHEET – PAGE 2 OF 2

## MAXIMUM RATINGS

07/02/2014

| 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   | LED forward current                                          | 132         | mA    |

## LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

| Symbol | Parameter                | Test Conditions | Min  | Typ   | Max  | Unit |
|--------|--------------------------|-----------------|------|-------|------|------|
| Iv     | Luminance Intensity Rank | Ifwd = 93mA     | 14.1 | -     | 18.1 | cd   |
| X      | White X coordinate       |                 |      | 0.243 |      | -    |
| Y      | White Y coordinate       |                 |      | 0.220 |      | -    |

## LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 110 mA (4 Banks per Rail, 1 Rail per Display), 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 |                 | 24  | 26  | 28  | Vdc  |

## TYPICAL LED RAIL PERFORMANCE GRAPHS

