Applied Concepts
INNOVATION IN POWER CONVERSION TECHNOLOGY

397 Route 281 – P.O. Box 1175
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ACR-0801-1714

8.75" SINGLE BANK LED RAIL
(Single Bank, 74V @ 61mA)
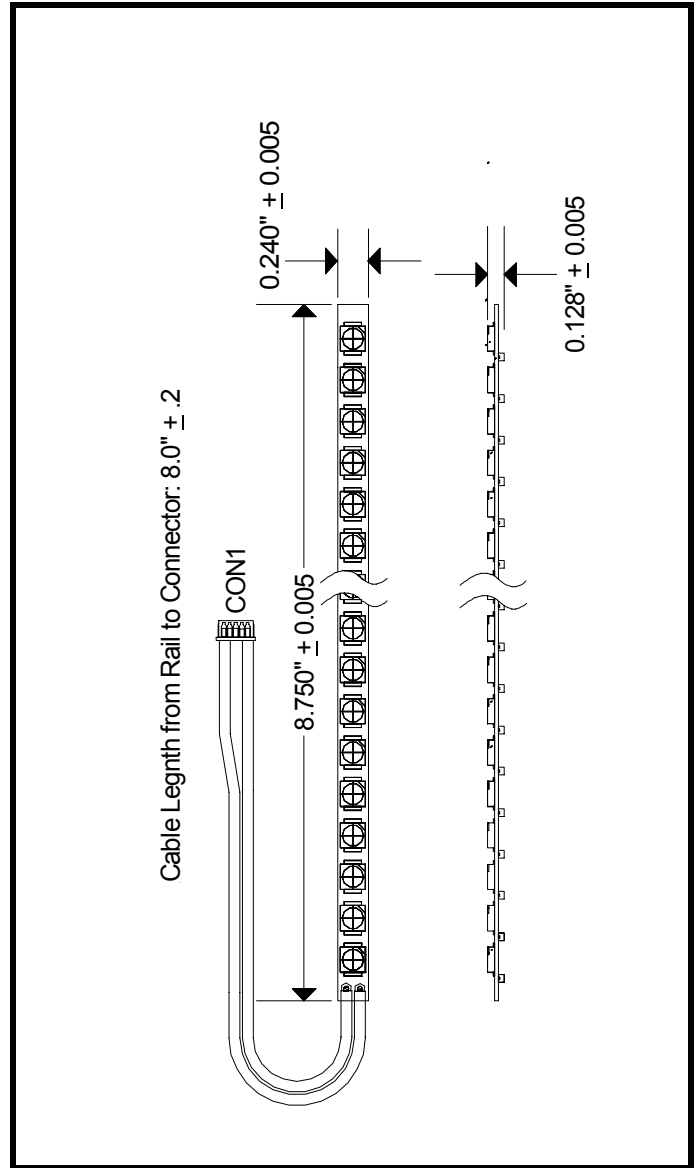
02/17/10

GENERAL DESCRIPTION

The ACR-0801-1714 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 both the I-Drive2 and I-Drive3 LED driver platforms.

MECHANICAL / ENVIRONMENTAL

Weight = 7.4 grams

Altitude = 35,000 Ft maximum

Humidity < 95% non-condensing

Size (L x W x H) = 8.750 IN x 0.240 IN x 0.128 IN

PCB thickness = 0.030 IN

Input connector = CON1

RoHS compliant

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MAXIMUM RATINGS*   02/17/10

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

*Maximum Ratings are those values beyond which damage may occur.

LED OPTICAL CHARACTERISTICS
LED Manufacturer specifications for reference purpose only

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 350mA	51	55	60.5	Lm
X	White X coordinate			0.300		-
Y	White Y coordinate			0.295		-

LED RAIL ELECTRICAL CHARACTERISTICS
Ifwd = 61mA, Tled = +75Deg-C (LEDs without heat sinking to the display)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		66	74	81	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS

Rail Voltage & Power vs. LED drive current (Ta = +25Deg-C)