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# ACR-0534-2413

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## 10.70" QUAD BANK LED RAIL

(Quad Bank, 53V @ 45.0mA)

10/30/2013

### GENERAL DESCRIPTION

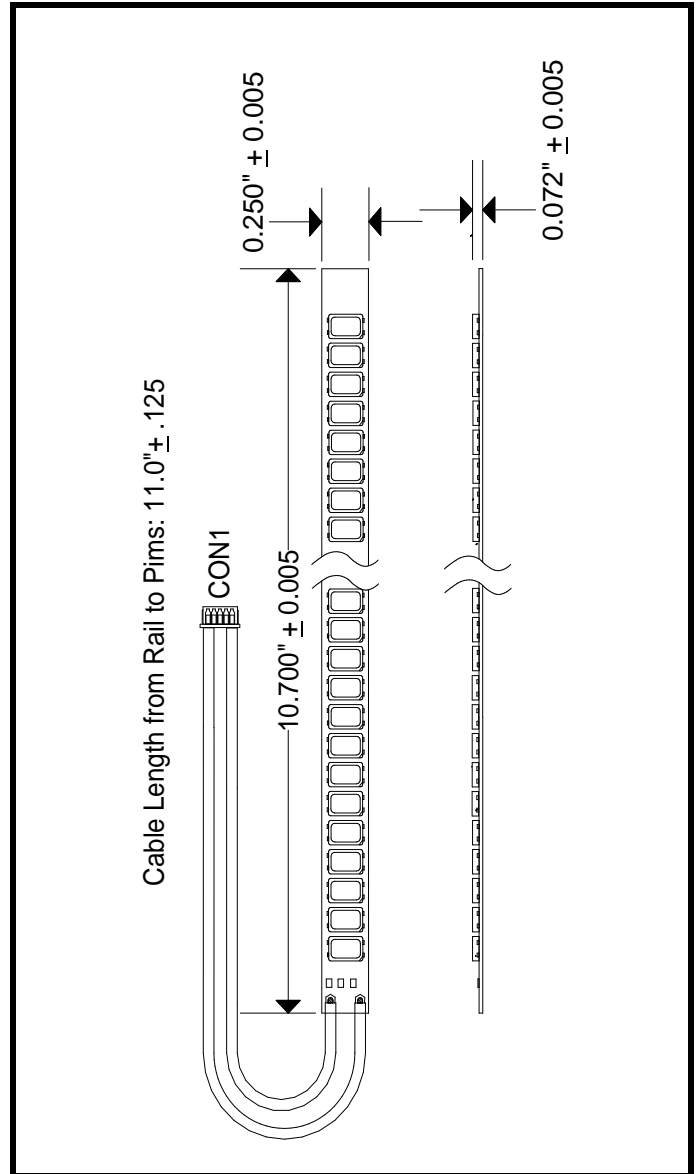
The ACR-0534-2413 is designed as a replacement for field replaceable, single tube, single edge lit 12.1" CCFL displays.

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.

### MECHANICAL / ENVIRONMENTAL

Weight = 12 grams  
Altitude = 35,000 Ft maximum  
Humidity < 95% non-condensing  
Size (L x W x H) = 10.70 IN x 0.250 IN x .072 IN  
PCB thickness = 0.032 IN  
RoHS compliant



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**MAXIMUM RATINGS**

10/30/2013

Symbol	Parameter	Value	Unit
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +85	Deg-C
Tstg	LED Rail storage temperature	-40 to +100	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	54.0	mA

**LED OPTICAL CHARACTERISTICS**

LED Manufacturer specifications for reference purpose only

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Iv	Luminance Intensity	Ifwd = 110mA	23.7	-	34.2	lm
X	White X coordinate			0.300		-
Y	White Y coordinate			0.295		-

**LED RAIL ELECTRICAL CHARACTERISTICS**

Ifwd = 45.0mA, (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		48	53	58	Vdc

**TYPICAL LED RAIL PERFORMANCE GRAPHS**

