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ACR-2477

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9.56" QUAD BANK LED RAIL

(QUAD Bank, 26 V @ 110 mA)

03/03/2014

GENERAL DESCRIPTION

The ACR-2477 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

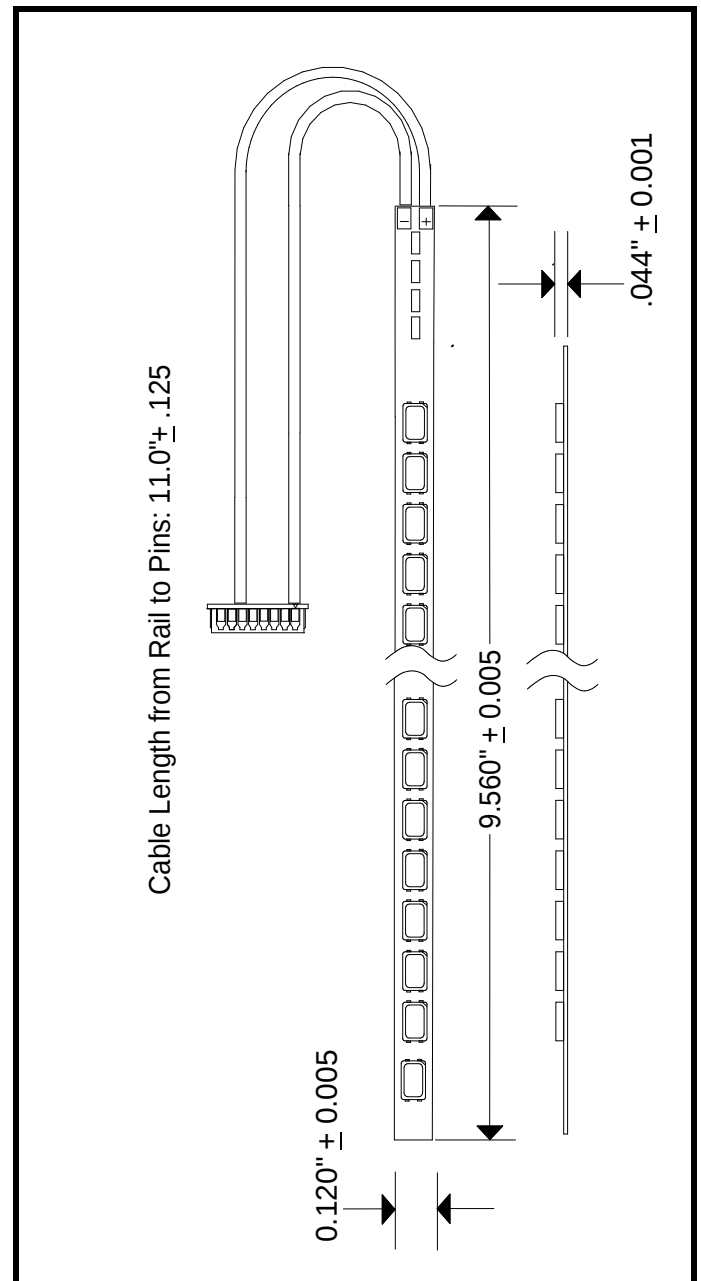
Humidity < 95% non-condensing

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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MAXIMUM RATINGS

03/03/2014

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

