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ACR-2308

PRODUCT DATA SHEET – PAGE 1 OF 3

10.04" DUAL MODE LED RAIL

(Day LEDs: Dual Bank, 90V @ 102.5mA)
(NVIS LEDs: Single Bank, 85V @ 25mA)

GENERAL DESCRIPTION

The ACR-2308 is designed as a replacement for field replaceable, single rail, single edge lit 12.1" LED displays.

The rail uses high performance LEDs capable of Day and NVIS White operations.

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 = 5 grams

Altitude = 35,000 Ft maximum

Humidity < 95% non-condensing

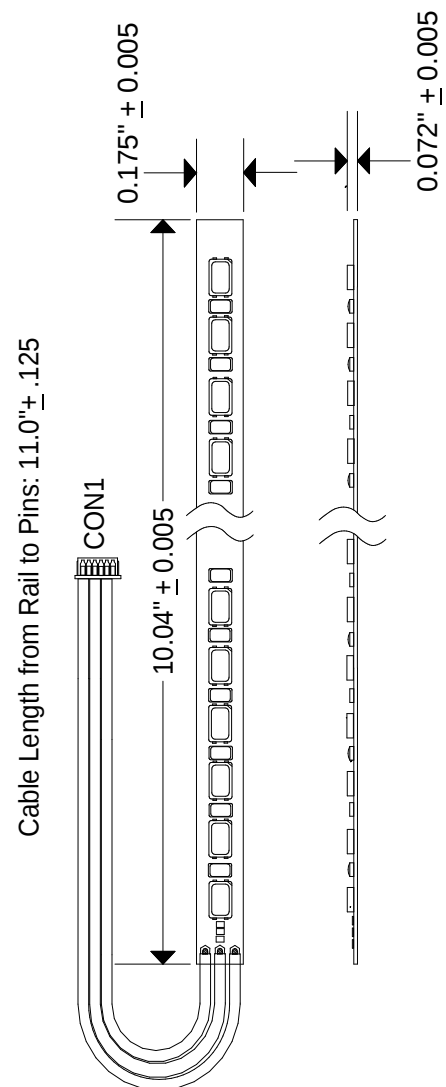
Size (L x W x H) = 10.04 IN x 0.175 IN x .072 IN

PCB thickness = 0.032 IN

Input connector = CON1

RoHS compliant

08/19/15



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DAY MODE

MAXIMUM RATINGS

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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 forward current (DC)	123	mA

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

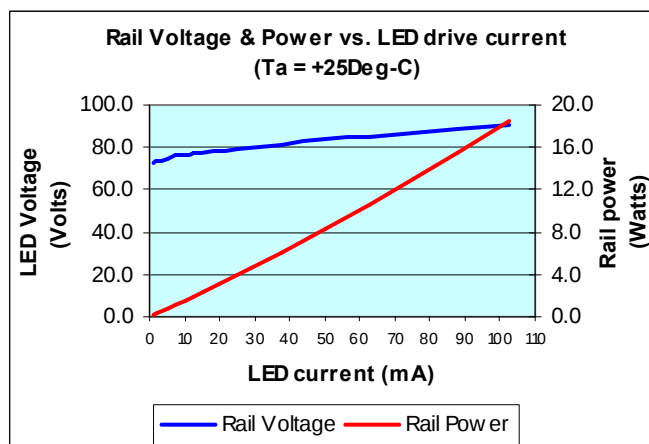
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 93mA	14.1		18.1	cd
X	White X coordinate			0.255		
Y	White Y coordinate			0.220		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 102.5 mA per bank(2 bank per rail), Tled = +75Deg-C (LED's heat sinking to the display)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		81	90	99	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS



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NVIS MODE

MAXIMUM RATINGS

08/19/15

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

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 20mA			30	mcd
X	White X coordinate			0.19		
Y	White Y coordinate			0.49		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 25mA (1 bank per rail), 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		77	85	93	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS

