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ACR-2152

PRODUCT DATA SHEET – PAGE 1 OF 3

8.563" DUAL MODE LED RAIL

(Day LEDs: Single Bank, 79V @ 80.0mA)
(NVIS LEDs: Single Bank, 75V @ 25.0mA)

08/19/15

GENERAL DESCRIPTION

The ACR-2152 is designed as a replacement for field replaceable, single edge lit 10.4" 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 ACI's Dual Mode LED Drivers.

MECHANICAL / ENVIRONMENTAL

Weight = 8 grams

Altitude = 35,000 Ft maximum

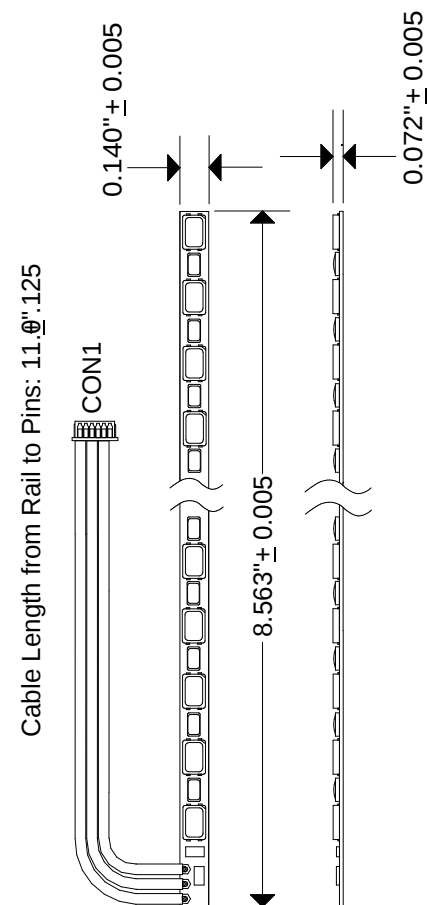
Humidity < 95% non-condensing

Size (L x W x H) = 8.563 IN x 0.140 IN x .072 IN

PCB thickness = 0.032 IN

Input connector = CON1

RoHS compliant



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PRODUCT DATA SHEET – PAGE 2 OF 3

DAY MODE

MAXIMUM RATINGS

08/19/15

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)	96	mA

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

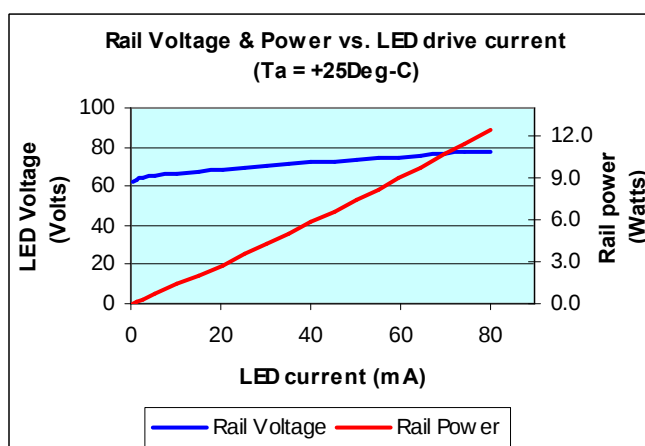
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 110mA	9	11	13	cd
X	White X coordinate			0.280		
Y	White Y coordinate			0.295		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 80.0mA (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		71	79	87	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS



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PRODUCT DATA SHEET – PAGE 3 OF 3

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		67	75	83	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS

