



397 Route 281
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ACR-3107

PRODUCT DATA SHEET – PAGE 1 OF 3

6.065" DUAL MODE LED RAIL

(Day LEDs: Single Bank, 77V @ 90mA)
(NVIS LEDs: Single Bank, 35.2V @ 30mA)

04/09/2021

GENERAL DESCRIPTION

The ACR-3107 is designed as a replacement for edge lit 7" 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 = 8 grams

Altitude = 35,000 Ft maximum

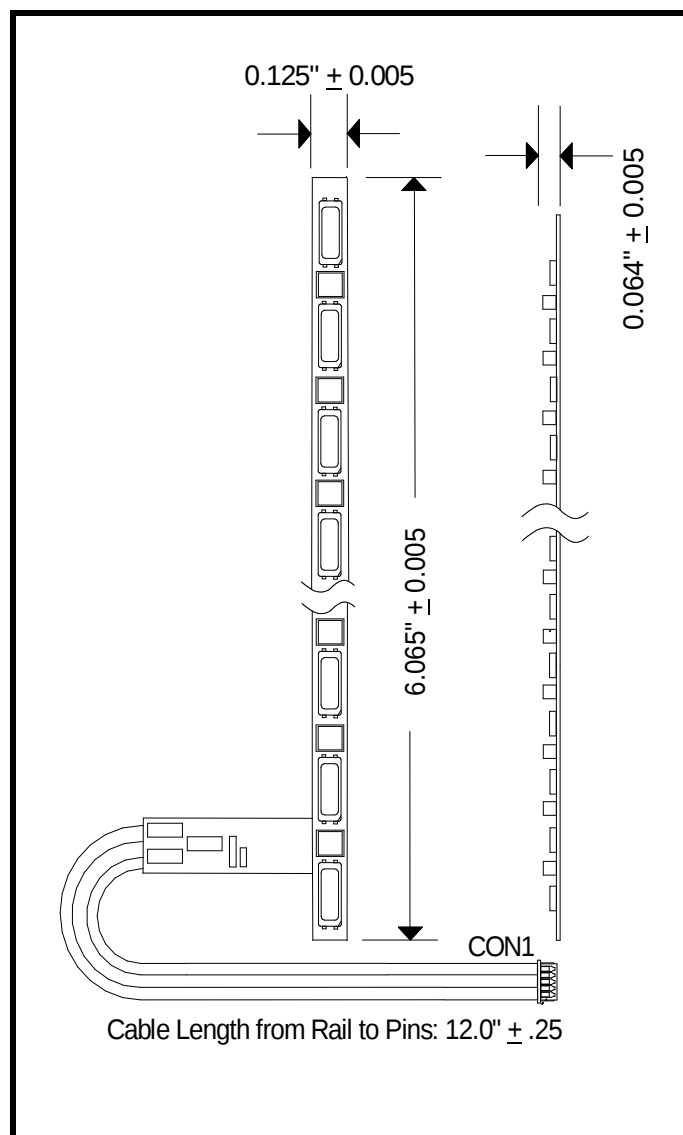
Humidity < 95% non-condensing

Size (L x W x H) = 6.035 IN x 0.125 IN x .064 IN

Flex Foil Thickness = 0.007 IN

Input connector = CON1

RoHS compliant



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PRODUCT DATA SHEET – PAGE 2 OF 3

DAY MODE

MAXIMUM RATINGS

04/09/2021

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)	108	mA

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

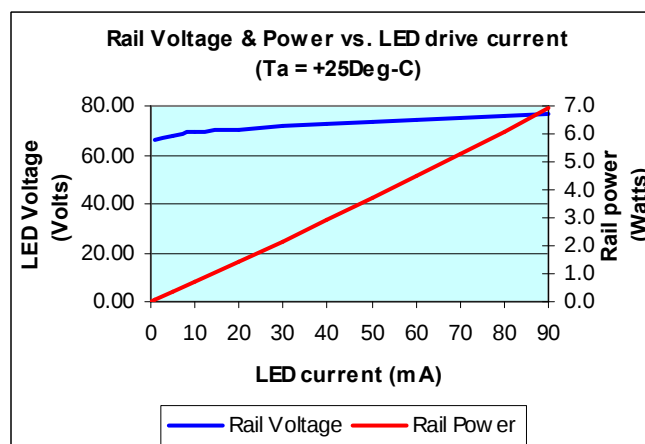
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 150mA	87	93		lm
X	White X coordinate			0.260		
Y	White Y coordinate			0.270		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 90mA (1 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		69	77	85	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS



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PRODUCT DATA SHEET – PAGE 3 OF 3

NVIS MODE

MAXIMUM RATINGS

04/09/2021

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)	33	mA

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 25mA			200	mcd
X	White X coordinate			0.280		
Y	White Y coordinate			0.320		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 30mA (1 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		31.7	35.2	38.8	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS

