Applied Concepts
INNOVATION IN POWER CONVERSION TECHNOLOGY

397 Route 281
Tully, New York 13159
Phone: 315 696-6676
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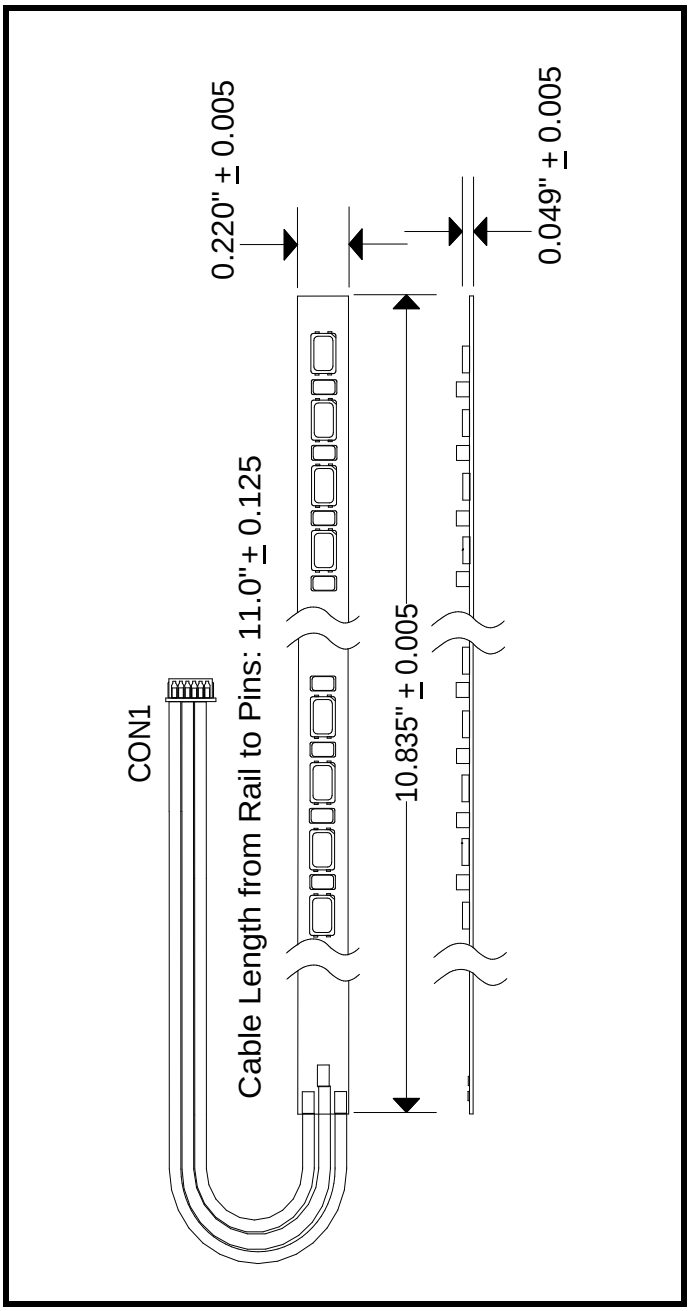
ACR-2839

PRODUCT DATA SHEET

10.835" DUAL MODE LED RAIL

05/09/17

(Day LEDs: Single Bank, 64V @ 82.5mA)
(NVIS LEDs: Single Bank, 51V @ 5.5mA)



GENERAL DESCRIPTION

The ACR-2839 is designed as a replacement for 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 = 3 grams

Altitude = 35,000 Ft maximum

Humidity < 95% non-condensing

Size (L x W x H) = 10.835 IN x 0.220 IN x .049 IN

Flex Foil thickness = 0.009 IN

Input connector = CON1

RoHS compliant

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DAY MODE

05/09/17

MAXIMUM RATINGS

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)	99	mA

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

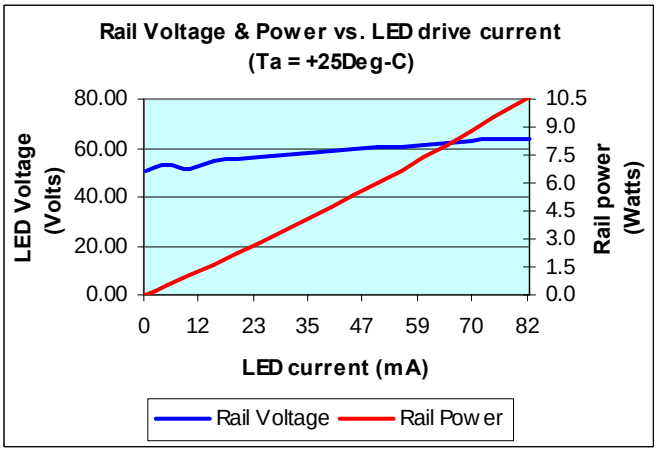
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 93mA	22.3		24.7	cd
X	White X coordinate			0.280		
Y	White Y coordinate			0.295		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 82.5mA (2 bank per rail), Tled = +75Deg-C (LED's with heat sinking to the display)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		58	64	70	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS



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PRODUCT DATA SHEET

NVIS MODE

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MAXIMUM RATINGS

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)	6.6	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			0.300		
Y	White Y coordinate			0.350		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 5.5mA (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		46	51	56	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS