Applied Concepts
INNOVATION IN POWER CONVERSION TECHNOLOGY

397 Route 281
Tully, New York 13159-1175
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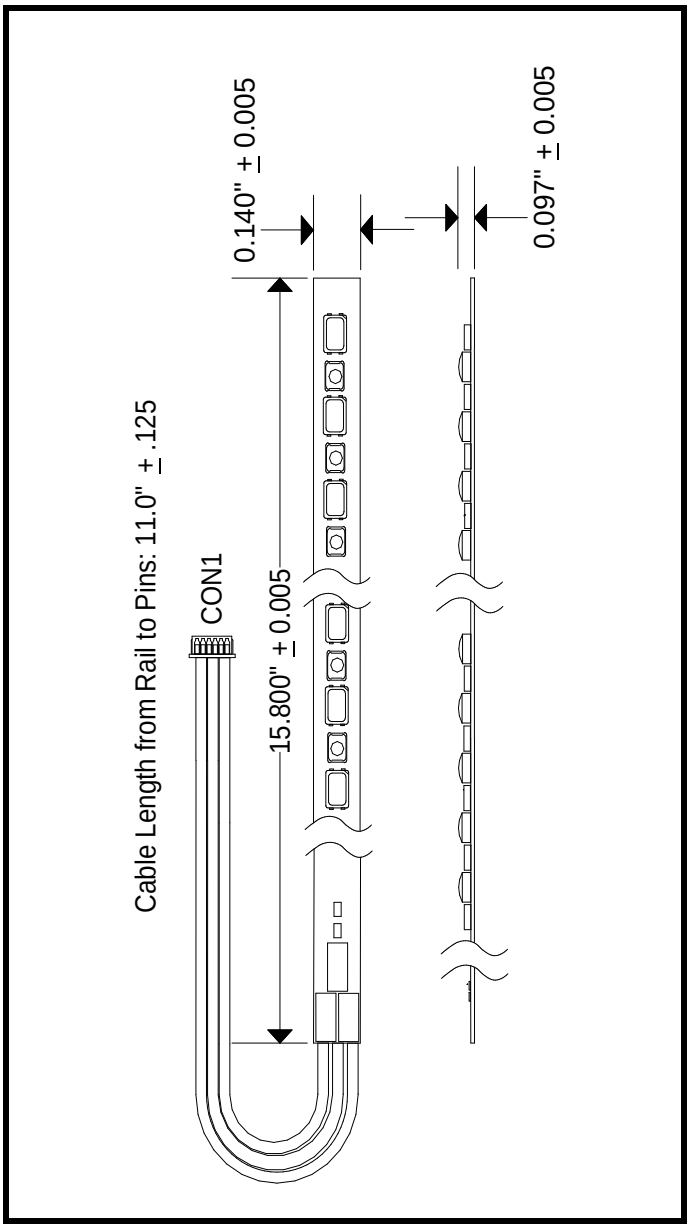
ACR-2387

15.800" DUAL MODE LED RAIL

07/16/14

(Day LEDs: Dual Bank, 105V @ 115mA)
(NVIS LEDs: Single Bank, 103V @ 40mA)



GENERAL DESCRIPTION

The ACR-2387 is designed as a replacement for edge lit 17" LED displays.

The rail uses high performance LEDs capable of Day and NVIS Class B 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 = 6 grams

Altitude = 35,000 Ft maximum

Humidity < 95% non-condensing

Size (L x W x H) = 15.800 IN x 0.14 IN x .097 IN

Flex PCB thickness = 0.007 IN

Input connector = CON1

RoHS compliant

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DAY MODE

MAXIMUM RATINGS

07/16/14

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)	120	mA

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

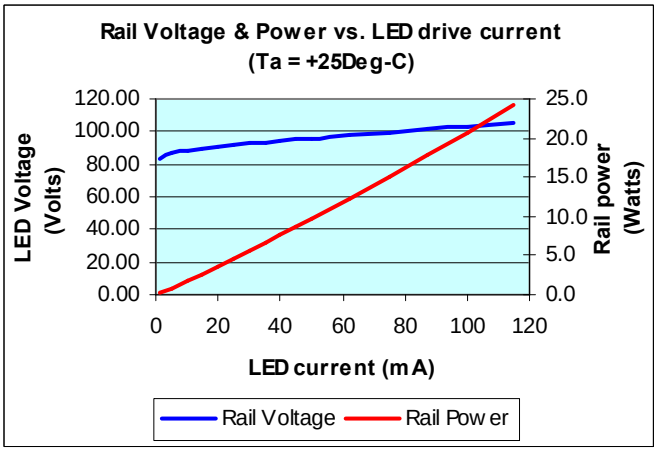
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 93mA	14.1		18.1	cd
X	White X coordinate			0.280		
Y	White Y coordinate			0.295		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 115mA (2 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		95	105	115	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS



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NVIS MODE

MAXIMUM RATINGS

07/16/14

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)	42	mA

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 20mA			150	mcd
X	White X coordinate			0.302		
Y	White Y coordinate			0.676		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 40mA (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		93	103	113	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS