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ACR-2457

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13.425" DUAL MODE LED RAIL

(Day LEDs: Tri Bank, 77V @ 110mA)

(NVIS LEDs: Single Bank, 116V @ 40mA)

08/19/15

GENERAL DESCRIPTION

The ACR-2457 is designed as a replacement single edge lit 15.4" 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

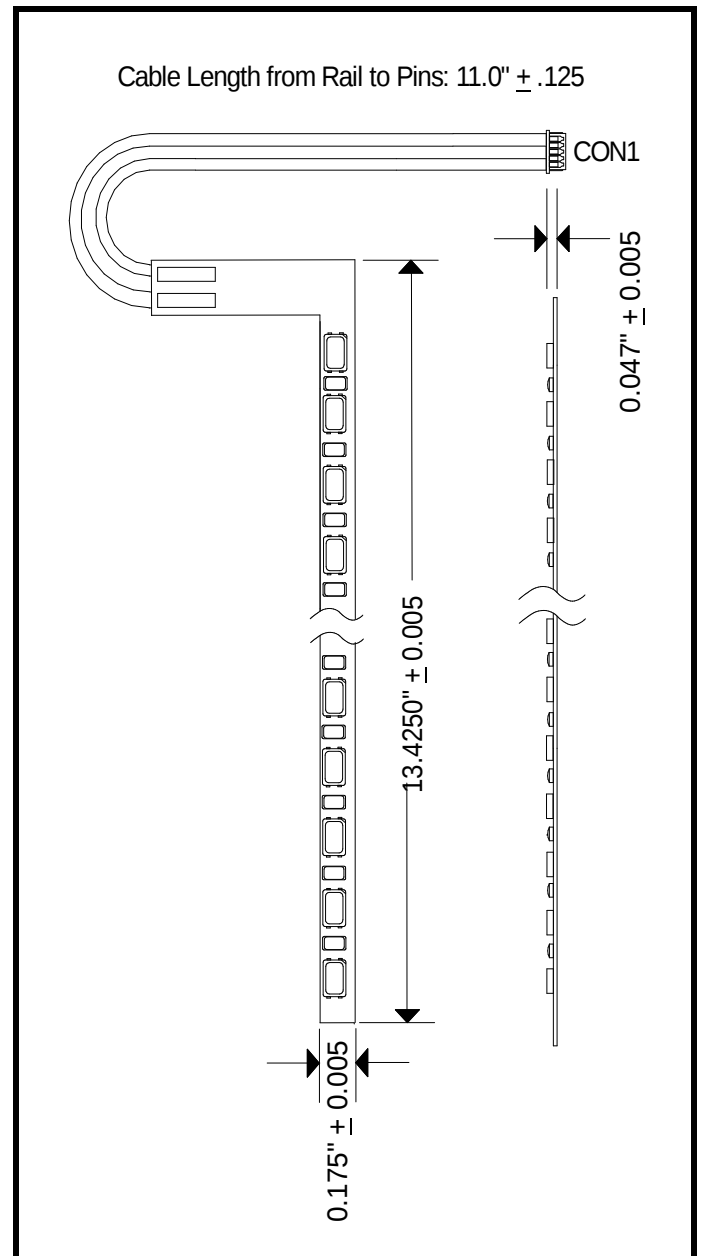
Humidity < 95% non-condensing

Size (L x W x H) = 13.425 IN x 0.175 IN x .047 IN

Flex Foil Thickness = 0.007 IN

Input connector = CON1

RoHS compliant



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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)	120	mA

LED OPTICAL CHARACTERISTICS

LED Manufacturer specifications for reference purpose only

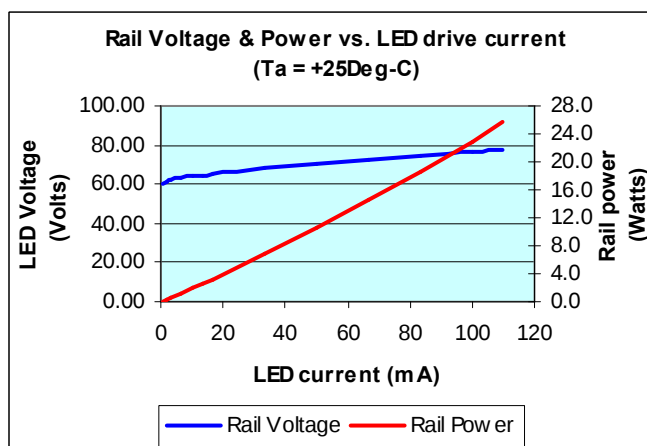
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 93mA	19.9		21.1	cd
X	White X coordinate			0.260		
Y	White Y coordinate			0.270		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 110mA (3 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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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)	44	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 = 40mA (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		110	116	122	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS

