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ACR-2999

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20.42" DUAL MODE LED RAIL

(Day LEDs: Quad Bank, 65V @ 82.5mA)
(NVIS LEDs: Dual Bank, 62V @ 7.5mA)

GENERAL DESCRIPTION

The ACR-2999 is designed as a replacement for edge lit 24" 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 = 4 grams

Altitude = 35,000 Ft maximum

Humidity < 95% non-condensing

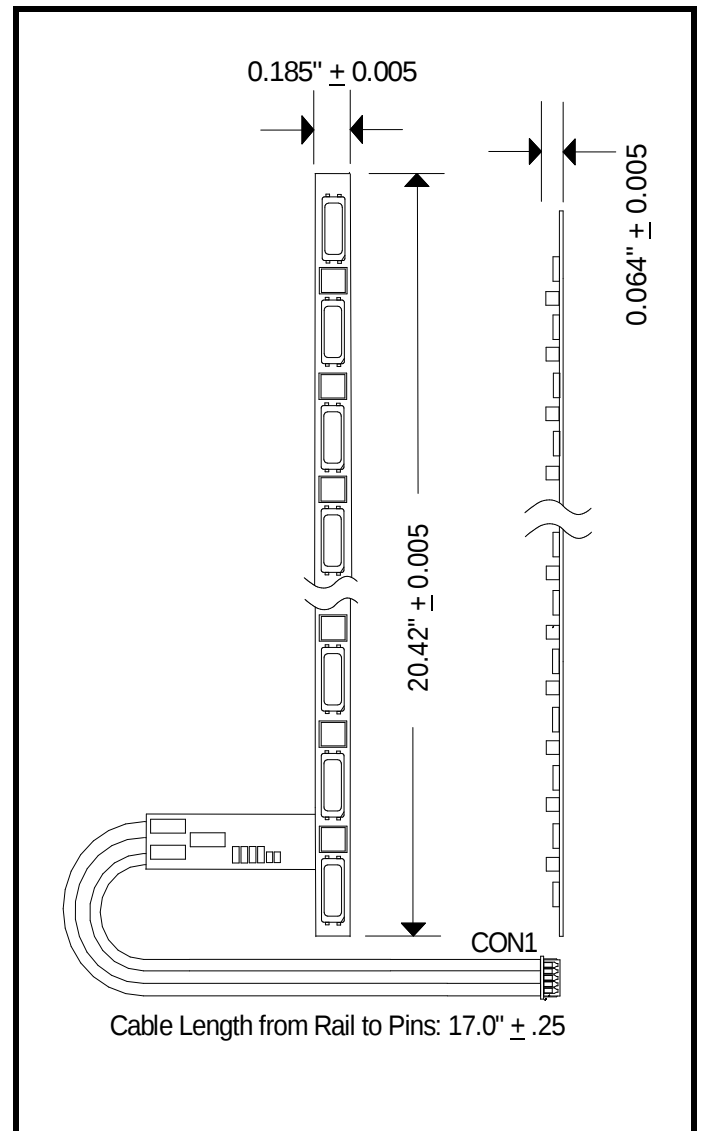
Size (L x W x H) = 20.42 IN x 0.185 IN x .064 IN

Flex Foil Thickness = 0.007 IN

Input connector = CON1

RoHS compliant

07/03/09



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DAY MODE

MAXIMUM RATINGS

07/03/19

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

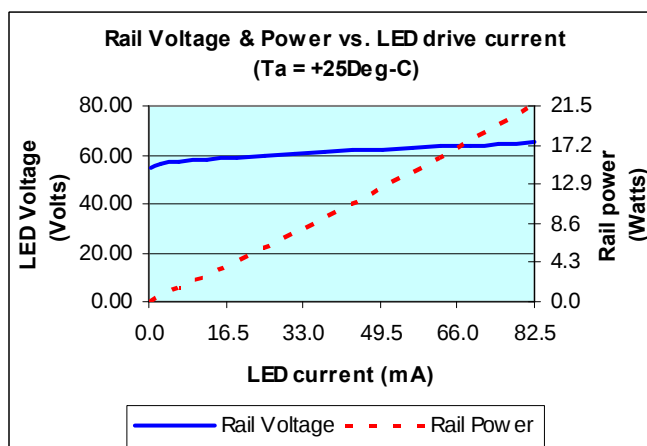
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 150mA	87	93		lm
X	White X coordinate			0.260		
Y	White Y coordinate			0.270		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 82.5mA (4 banks 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		59	65	71	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS



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NVIS MODE

MAXIMUM RATINGS

07/03/19

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)	9	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 = 7.5mA (2 banks 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		56	62	68	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS

