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ACR-3207

PRODUCT DATASHEET

21.65" DUAL MODE LED RAIL

(Day LEDs: Tri-Bank, 90V @ 100mA)
(NVIS LEDs: Dual Bank, 69V @ 45mA)

1/16/2023

GENERAL DESCRIPTION

The ACR-3207 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 = 35 grams

Altitude = 35,000 Ft maximum

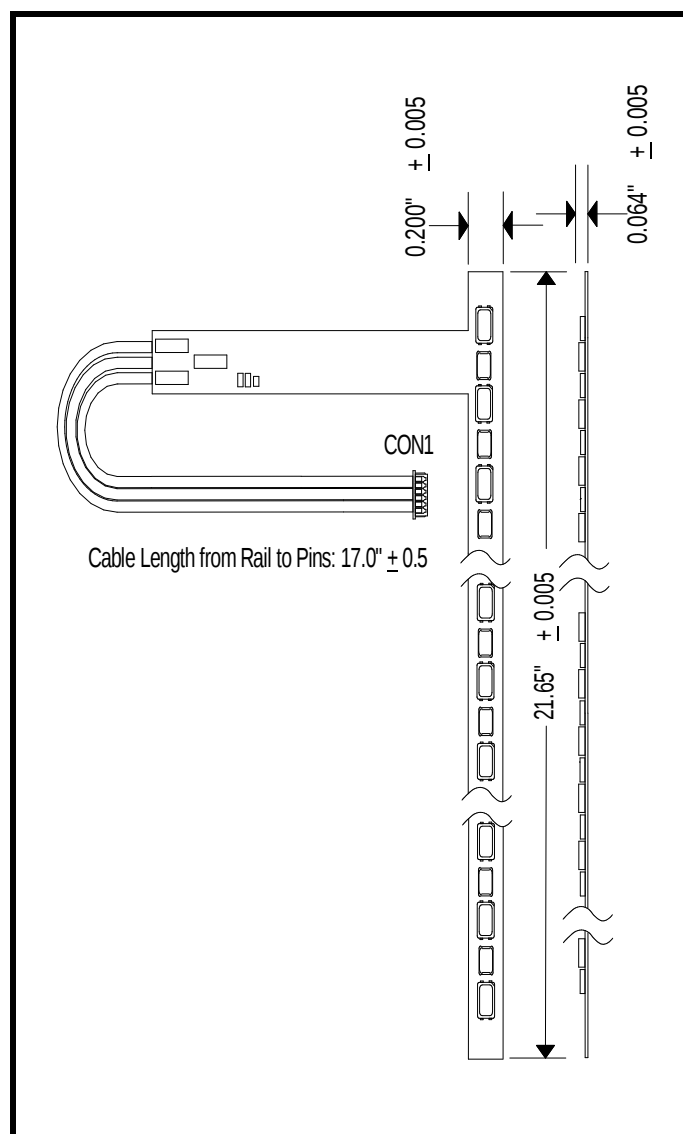
Humidity < 95% non-condensing

Size (L x W x H) = 21.65 IN x 0.200 IN x 0.064 IN

Flex PCB thickness = 0.007 IN

Input connector = CON1 (Molex 51021-0600)

RoHS compliant



DAY MODE

MAXIMUM RATINGS

1/16/2023

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

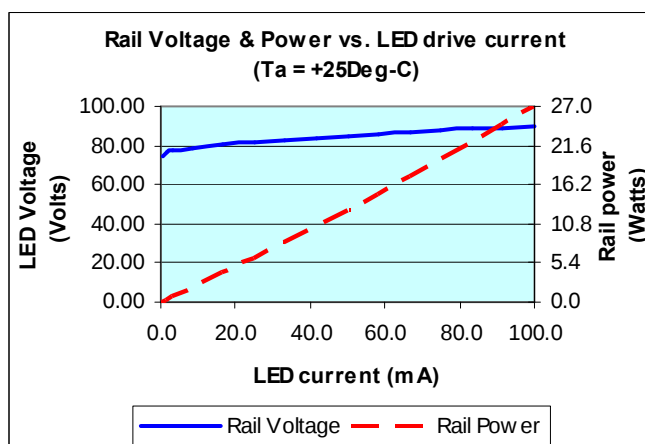
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
BL	LED Brightness	Ifwd = 93mA	14.1		18.1	cd
X	White X coordinate			0.280		
Y	White Y coordinate			0.295		

LED RAIL ELECTRICAL CHARACTERISTICS

Ifwd = 100mA (3 banks 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		81	90	99	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS



NVIS MODE

MAXIMUM RATINGS

1/16/2023

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)	54	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 = 45mA (2 banks 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		62	69	76	Vdc

TYPICAL LED RAIL PERFORMANCE GRAPHS

