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ACD-2287

PRODUCT DATA SHEET – PAGE 1 OF 2

8.4" XGA LED BACKLIT TFT DISPLAY

1000:1 dimming/Cool operation

GENERAL DESCRIPTION

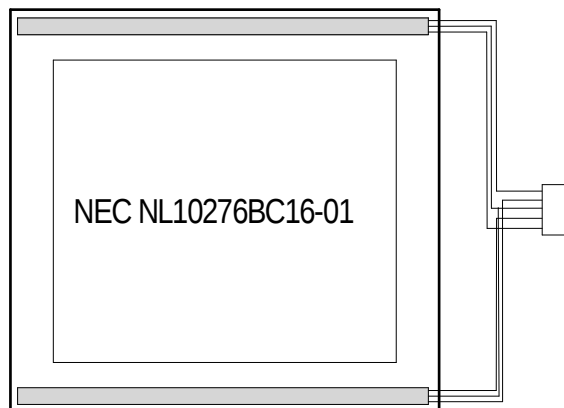
The ACD-2287 consists of the NEC NL10276BC16-01 XGA TFT display modified with a high performance LED backlight. The resulting performance exceeds that of the standard CCFL equipped backlight by 2.1 to 1

Customer Consigned Panel.

Performance at given brightness levels

500 cd/m² with 4.5 watts LED power

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LCD PANEL HIGHLIGHTS

8.4" TFT Active Matrix Color

170.496 (H) mm x 127.872 (V) mm viewable area

XGA 1024 x 768 pixels, 16.8 M colors

400:1 typical contrast ratio

72% color gamut (NTSC color space)

For complete LCD specification (standard panel), refer to the NEC 10276BC16-01 datasheet

LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire connection (15 inches long), allows simple interconnect with LED driver¹

Projected lifetime > 75,000 hours

1000:1 or better dimming ratio (Day)¹

¹ For best power transfer and control, use ACI-2288 LED driver. Do not set the driver output current (Ifwd) higher than the value specified in the Maximum Ratings table of this document. Please contact the factory for more specific use LED driver solutions if required.

MAXIMUM RATINGS

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Symbol	Parameter	Value	Unit
Top	Operating temperature of display (center of panel surface)	0 to +55	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +85	Deg-C
Tstg	Display storage temperature	-20 to +60	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	30	mA

*Maximum Ratings are those values beyond which damage may occur

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd(Day) = 25mA per bank, LED rail ACR-0971-2294, 1 bank per rail, 2 rails per display, Ta = +25Deg-C, LCD powered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		450	500	550	cd/m ²
X	White X coordinate			0.272		-
Y	White Y coordinate			0.323		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd(Day) = 25mA, LED rail ACR-0971-2294, 1 bank per rail, 2 rails per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		81	90	99	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

