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ACD-NC150-2587

PRODUCT DATA SHEET

11/04/2014

15.0" XGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

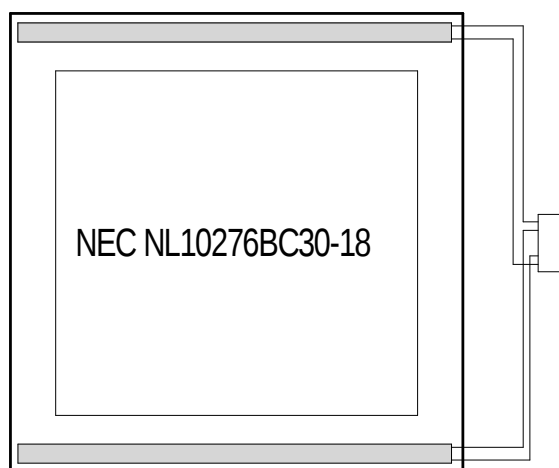
The ACD-NC150-2587 consists of the NEC NL10276BC30-18 XGA TFT display modified with a high performance LED backlight.

Performance at given brightness levels

1500 cd/m² with 24.9 watts LED power

Display outline identical to standard CCFL equipped panel

For many applications, satisfies sunlight readability goals



LCD PANEL HIGHLIGHTS

15.0" TFT Active Matrix Color

304.128 (H) mm x 228.096 (V) mm viewable area

XGA 1024 x 768 pixels, 16.7M colors

500:1 typical contrast ratio

40% color gamut (NTSC color space)

Display Mode Normally White

For complete LCD specification (standard panel), refer to NEC NL10276BC30-18 data sheet.

LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire connection (Typically 11 inches long), allows simple interconnect with LED driver¹

Projected lifetime > 75,000 hours

1000:1 or better dimming ratio, guaranteed¹

¹ For best power transfer and control, use ACI-E105280-1942 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*

Symbol	Parameter	Value	Unit
Top	Operating temperature of display (center of panel surface)	-10 to +70	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +85	Deg-C
Tstg	Display storage temperature	-20 to +80	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	56	mA

*Maximum Ratings are those values beyond which damage to the driver may occur

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 46.7mA per bank, LED rail ACR-0923-2258, 3 banks per rail, 2 rails per display, Ta = +25Deg-C, LCD unpowered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		1350	1500	1650	cd/m ²
X	White X coordinate			0.260		-
Y	White Y coordinate			0.286		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 46.7mA per bank, 3 banks per rail, 2 rails per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		80	89	98	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

