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ACD-NC150-1919

PRODUCT DATA SHEET – PAGE 1 OF 2

15.0" XGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 Dimming/Cool Operation

GENERAL DESCRIPTION

03/17/10

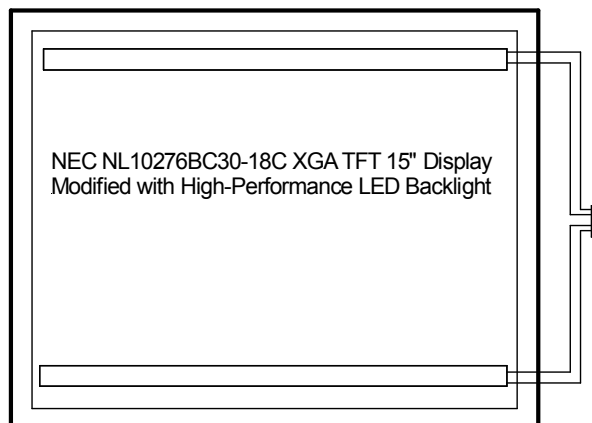
The ACD-NC150-1919 consists of the NEC NL10276BC30-18C XGA TFT display modified with a high performance LED backlight. The resulting performance exceeds that of the standard CCFL equipped backlight by 1.75 to 1

Performance at given brightness levels

1950 cd/m² with 26 watts LED power

Display outline identical to standard CCFL equipped panel

For many applications, satisfies sunlight readability goals



LED BACKLIGHT FEATURES

White LED edge-light rail

One connector connection (Typically 8 inches long), allows simple interconnect with LED driver

Projected lifetime > 75,000 hours

Active fault protection keeps remaining LEDs operating normally if one should ever fail.

1000:1 or better dimming ratio guaranteed

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, 16,777,216 colors

600:1 typical contrast ratio

40% color gamut (NTSC color space)

For complete LCD specification (standard panel), refer to NEC datasheet NL10276BC30-18C

MAXIMUM RATINGS*

03/17/10

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)	-20 to +75	Deg-C
Tstg	Display storage temperature	-20 to +80	Deg-C
Ifwd	LED forward current	125	mADC

*Maximum Ratings are those values beyond which damage may occur.

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 121mA per Bank. One Bank per Rail, two Rails in parallel per Dual Rail Set (ACR-1092-1917), one Dual Rail Set per Display. Ta = +25Deg-C, LCD un-powered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		1755	1950	2145	cd/m ²
X	White X coordinate			0.309		-
Y	White Y coordinate			0.376		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 121mA per Bank. One Bank per Rail, two Rails in parallel per Dual Rail Set (ACR-1092-1917), one Dual Rail Set per Display. Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		97	108	119	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

