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ACD-NC121-1875

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12.1" XGA LED BACKLIT TFT DISPLAY

Sunlight Readability/Cool operation

GENERAL DESCRIPTION

The ACD-NC121-1875 consists of the NEC NL10276BC24-13C XGA TFT display modified with a high performance LED backlight. The resulting performance exceeds that of the standard CCFL equipped backlight by 1.8 to 1

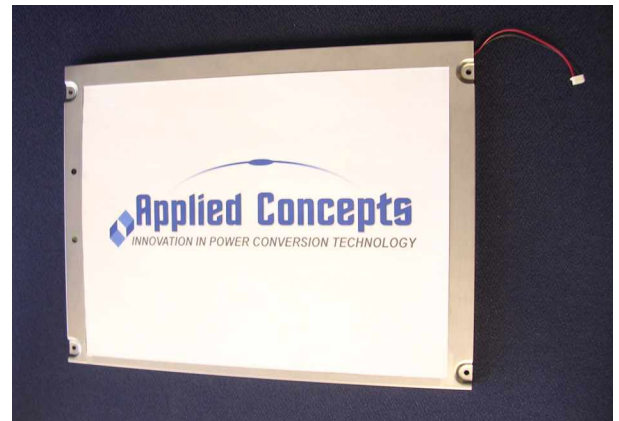
Performance at given brightness levels

1000 cd/m² with 8.6 watts LED power

Display outline identical to standard CCFL equipped panel

For many applications, satisfies sunlight readability goals

03/17/10



LCD PANEL HIGHLIGHTS

12.1" TFT Active Matrix Color

245.76 (H) mm x 184.32 (V) mm viewable area

XGA 1024 x 768 pixels, 262,144 or 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 NL10276BC24-13C

LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire 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

5000:1 or better dimming ratio guaranteed



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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)	-10 to +75	Deg-C
Tstg	Display storage temperature	-20 to +80	Deg-C
Ifwd	Maximum LED forward current	125	mADC

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

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 96.3mA (LED rail ACR-0951-1798), Ta = +25Deg-C, LCD un-powered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		900	1000	1100	cd/m ²
X	White X coordinate			0.316		-
Y	White Y coordinate			0.369		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 96.3mA, 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

