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ACD-NC084-1877

PRODUCT DATA SHEET – PAGE 1 OF 2

8.4" SVGA LED BACKLIT TFT DISPLAY

Sunlight Readability/Cool operation

GENERAL DESCRIPTION

The ACD-NC084-1877 consists of the NEC NL8060BC21-03 SVGA TFT display modified with a high performance LED backlight. The resulting performance exceeds that of the standard CCFL equipped backlight by 2 to 1

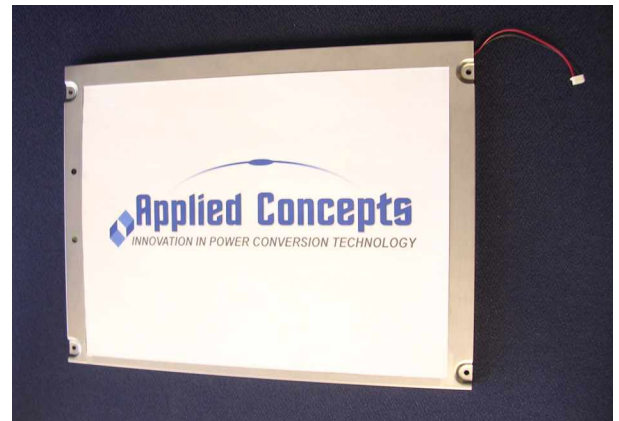
Performance at given brightness levels

1500 cd/m² with 5.1 watts LED power

Display outline identical to standard CCFL equipped panel

For many applications, satisfies sunlight readability goals

03/17/10



LCD PANEL HIGHLIGHTS

8.4" TFT Active Matrix Color

170.4 (H) mm x 127.8 (V) mm viewable area

SVGA 800 x 600 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 NL8060BC21-03

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 LED's 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)	-20 to +70	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-20 to +75	Deg-C
Tstg	Display storage temperature	-30 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 = 82mA (LED rail ACR-0621-1805), Ta = +25Deg-C, LCD un-powered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		1350	1500	1650	cd/m ²
X	White X coordinate			0.323		-
Y	White Y coordinate			0.390		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 82mA, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		59	62	71	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

