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ACD-2481

PRODUCT DATA SHEET – PAGE 1 OF 2

8.4" SVGA LED BACKLIT TFT DISPLAY

Sunlight Readability 1000:1 dimming/Cool operation

GENERAL DESCRIPTION

The ACD-2481 consists of the NEC NL8060BC21-06 SVGA TFT display modified with a high performance LED backlight.

Customer Consigned Panel.

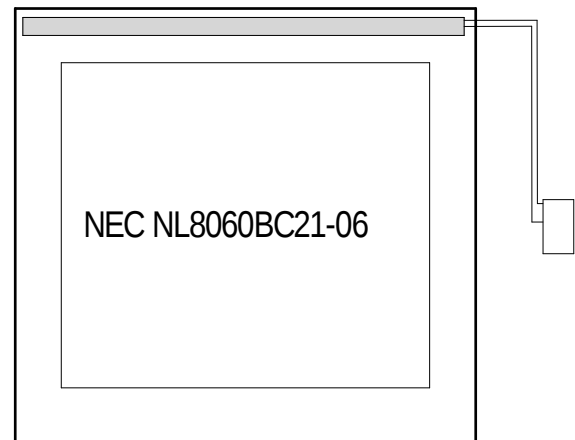
Performance at given brightness levels

1200 cd/m² with 3.22 watts LED power

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals

3/17/2014



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, 16.8M/262k colors

600:1 typical contrast ratio

40% color gamut (NTSC color space)

Display Mode Normally White

For complete LCD specification (standard panel), refer to the NEC NL8060BC21-06 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-C120035-2482 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

3/17/2014

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)	-30 to +85	Deg-C
Tstg	Display storage temperature	-30 to +80	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	42	mA

*Maximum Ratings are those values beyond which damage may occur

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd(Day) = 35mA per bank, LED rail ACR-0971-2294, 1 bank per rail, 1 rail per display, Ta = +25Deg-C, LCD unpowered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		1080	1200	1320	cd/m ²
X	White X coordinate			0.283		-
Y	White Y coordinate			0.337		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd(Day) = 35mA, LED rail ACR-0971-2294, 1 bank per rail, 1 rail per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		83	92	101	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

