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ACD-2382

PRODUCT DATA SHEET – PAGE 1 OF 3

15.0" XGA LED BACKLIT TFT DISPLAY WITH NVIS WHITE CAPABILITY

GENERAL DESCRIPTION

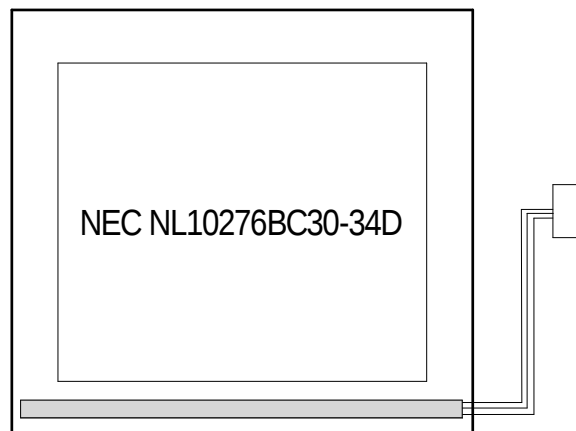
The ACD-2382 consists of the NEC NL10276BC30-34D XGA TFT display modified with a high performance LED backlight capable of Day and NVIS White operation.

Customer Consigned Panel

Performance at given brightness levels

1450 cd/m² with 20.3 watts LED power (Day)
4.1 cd/m² with 3.4 watts LED power (NVIS)

7/09/2015



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, 16.7 M colors
600:1 typical contrast ratio
RoHS compliant
Color Gamut: 50% against NTSC color space
Display Mode Normally White

For complete LCD specification (standard panel), refer to the NEC NL10276BC30-34D datasheet

LED BACKLIGHT FEATURES

Day and NVIS LED edge-light rail
Three wire connection (Typically 11 inches long), allows simple interconnect with LED driver¹
Projected lifetime > 75,000 hours
5000:1 or better dimming ratio (Day)¹

¹ For best power transfer and control, use one ACI-2383 Dual Mode LED Driver.

MAXIMUM RATINGS *

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Symbol	Parameter	Value	Unit
Top ¹	Operating temperature of display (center of panel surface)	-20 to +70	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-40 to +85	Deg-C
Tstg ¹	Display storage temperature	-20 to +80	Deg-C
Ifwd	LED forward current (Day)	108	mA
Ifwd	LED forward current (NVIS)	33	mA

* Maximum Ratings are those values beyond which damage may occur

¹ Per Manufacturer's Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd(Day) = 90mA per bank, 2 banks per rail, 1 rail per display, Ifwd(NVIS) = 30mA per bank, 1 bank per rail
LED rails: ACR-2249, Ta = +25Deg-C, moving air (36.0 CFM), min 2hr soak

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bpd	Panel Brightness (Day)		1305	1450	1595	cd/m ²
Bpn	Panel Brightness (NVIS)		3.7	4.1	4.5	cd/m ²
Xd	White X coordinate (Day mode)			0.259		-
Yd	White Y coordinate (Day mode)			0.284		-
XN	White X coordinate (NVIS)			0.288		-
YN	White Y coordinate (NVIS)			0.486		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd(Day) = 90mA, Ifwd(NVIS) = 30mA, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop (Day mode)		102	113	124	Vdc
Vfwd	LED rail forward voltage drop (NVIS)		101	112	123	Vdc



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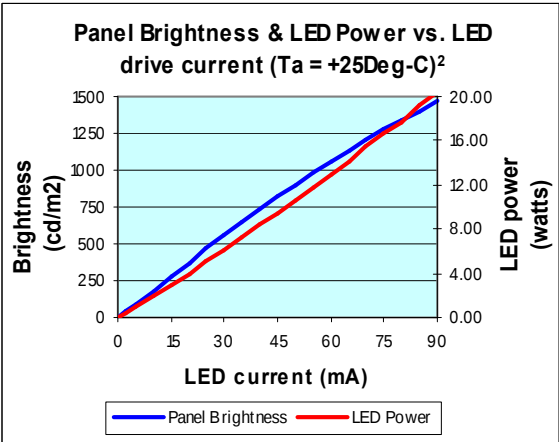
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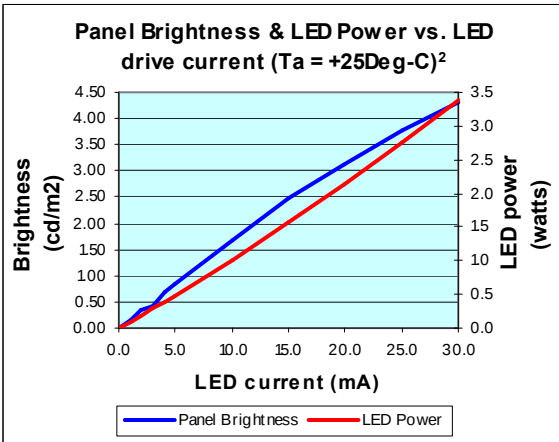
TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

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Day mode



NVIS



² Moving air (36.0 CFM)