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10.4" XGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 Dimming/Cool operation

GENERAL DESCRIPTION

The ACD-2434 consists of the NEC NL10276BC20-18F XGA TFT display modified with a high performance LED backlight.

Customer Consigned Panel

Performance at given brightness levels

1250 cd/m² with 8.3 watts LED power

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals

LCD PANEL HIGHLIGHTS

10.4" TFT Active Matrix Color

210.432 (H) mm x 157.824 (V) mm viewable area

XGA 1024 x 768 pixels

262,144 or 16,777,216 colors

900:1 typical contrast ratio

40% color gamut (NTSC color space)

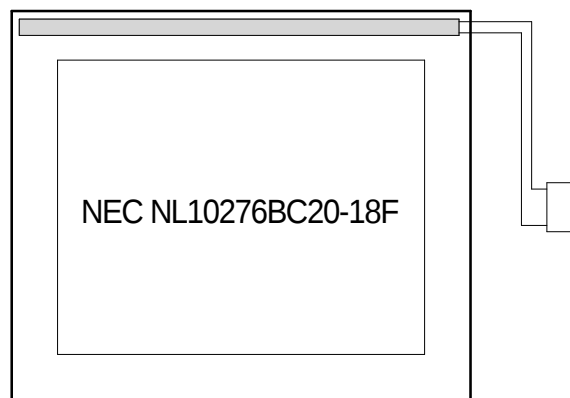
Display Mode Normally White

For complete LCD specification (standard panel), refer to NEC datasheet NL10276BC20-18F

ACD-2434

PRODUCT DATA SHEET – PAGE 1 OF 2

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LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire connection (Typically 11 inches long), allows simple interconnect with LED driver¹

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

¹ For best power transfer and control, use ACI LED driver ACI-C120105-2512. 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.

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MAXIMUM RATINGS*

Symbol	Parameter	Value	Unit
Top	Operating temperature of display (center of panel surface)	-30 to +80	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-40 to +85	Deg-C
Tstg	Display storage temperature	-30 to +80	Deg-C
Ifwd	Maximum LED forward current	63	mADC

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

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 52.5 mA (LED rail ACR-0842-2435, 2 Banks per rail, 1 rail per display), Ta = +25Deg-C, LCD un-powered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		1125	1250	1375	cd/m ²
X	White X coordinate			0.266		-
Y	White Y coordinate			0.298		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 52.5 mA, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		71	79	87	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

