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ACD-2238

PRODUCT DATA SHEET

05/20/2014

15.0" XGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

The ACD-2238 consists of the NEC NL10276BC30-33D XGA TFT display modified with a high performance LED backlight.

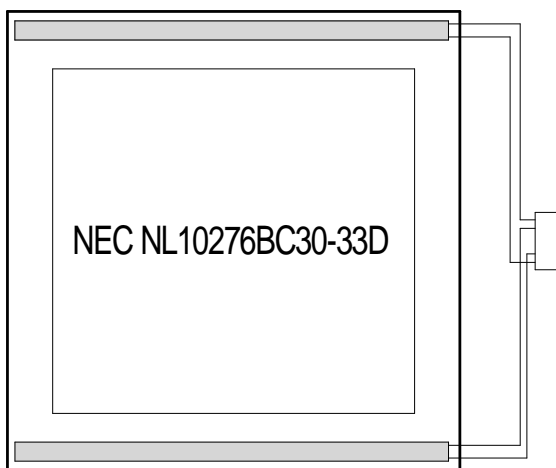
Customer Consigned Panel

Performance at given brightness levels

1900 cd/m² with 21.8 watts LED power

Display outline identical to standard CCFL equipped panel

For many applications, satisfies sunlight readability goals



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, 16.7M colors

500:1 typical contrast ratio

72% color gamut (NTSC color space)

Display Mode Normally White

For complete LCD specification (standard panel), refer to NEC NL10276BC30-33D data sheet.

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

1000:1 or better dimming ratio, guaranteed¹

¹ For best power transfer and control, use ACI-E120250-2261 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.

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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) | -30 to +85 | Deg-C |
| Tstg | Display storage temperature | -20 to +80 | Deg-C |
| Ifwd | Maximum LED edge-light forward current (DC) | 50 | mA |

*Maximum Ratings are those values beyond which damage to the driver may occur

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 41.7mA per bank, LED rail ACR-0923-2258, 3 banks per rail, 2 rails per display, Ta = +25Deg-C, LCD unpowered

| Symbol | Parameter | Test Conditions | Min | Typ | Max | Unit |
|--------|--------------------|-----------------|------|-------|------|-------------------|
| Bp | Panel Brightness | | 1710 | 1900 | 2090 | cd/m ² |
| X | White X coordinate | | | 0.269 | | - |
| Y | White Y coordinate | | | 0.316 | | - |

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 41.7mA per bank, 3 banks per rail, 2 rails per display, Top = +25Deg-C

| Symbol | Parameter | Test Conditions | Min | Typ | Max | Unit |
|--------|-------------------------------|-----------------|-----|-----|-----|------|
| Vfwd | LED rail forward voltage drop | | 78 | 87 | 96 | Vdc |

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

