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ACD-2714

PRODUCT DATA SHEET

02/10/2016

9" WVGA LED BACKLIT TFT DISPLAY

1000:1 dimming/Cool operation

GENERAL DESCRIPTION

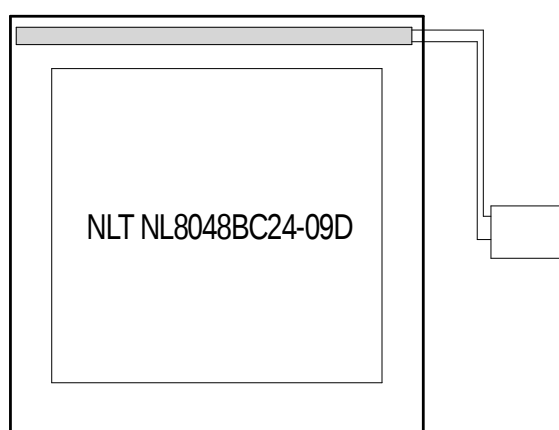
The ACD-2714 consists of the NLT NL8048BC24-09D XGA TFT display modified with a high performance LED backlight.

Customer Consigned Panel

Performance at given brightness levels

850 cd/m² with 4.4 watts

Display outline identical to standard LED equipped panel



LCD PANEL HIGHLIGHTS

9.0" TFT Active Matrix Color

196.8 (H) mm x 118.08 (V) mm viewable area

WVGA 800 x 480 pixels, 16.7M colors (8 bit input)

600:1 typical contrast ratio

60% color gamut (NTSC color space)

Display Mode Normally Black

For complete LCD specification (standard panel), refer to NLT NL8048BC24-09D data sheet.

LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire connection (Typically 9 inches long), allows simple interconnect with LED driver

Projected lifetime > 75,000 hours

User Supplied SBC On-Board LED Driver 500-1077; 66-1169; 160-1077_A

R71=15K ohm 1% - $V_{open}=28V$

R75=0.56 ohm 1% - $I_{fwd}=175mA$

MAXIMUM RATINGS *

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)	-30 to +85	Deg-C
Tstg ¹	Display storage temperature	-30 to +80	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	35	mA

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

¹ Per Manufacture's Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 29.2mA per bank, LED rail ACR-2715, 6 banks per rail, 1 rail per display, Ta = +25Deg-C, moving air (36.0 CFM), min 2hr soak

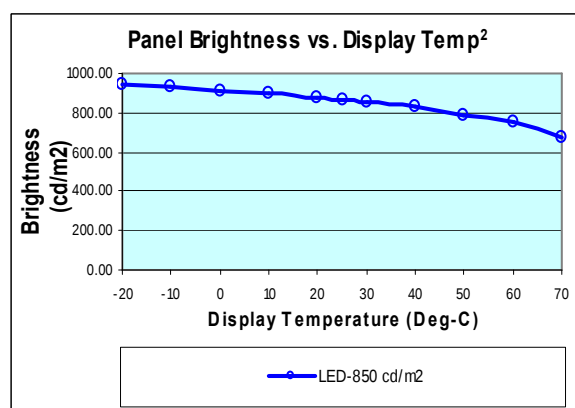
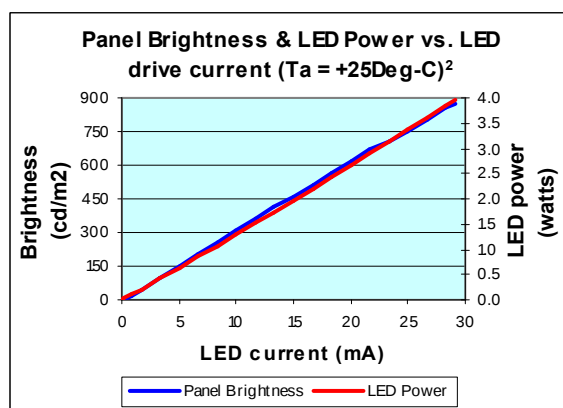
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		765	850	935	cd/m ²
X	White X coordinate			0.290		-
Y	White Y coordinate			0.330		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 29.2mA per bank, 6 banks per rail, 1 rail per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		23.8	25.1	26.4	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS



² Moving air (36.0 CFM)

MECHANICAL CHARACTERISTICS (RAIL EXIT)

