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ACD-2566

PRODUCT DATA SHEET – PAGE 1 OF 2

15.0" XGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

The ACD-2566 consists of the AUO G150XG01 V3 XGA TFT display modified with a high performance LED backlight.

Performance at given brightness levels

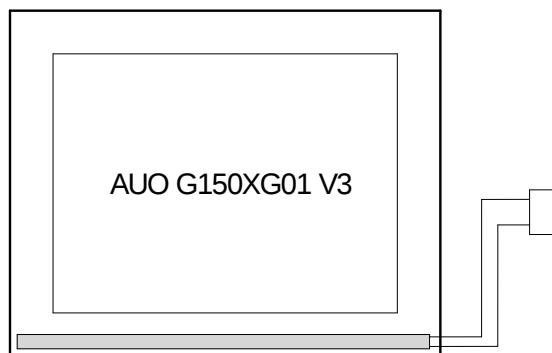
1500 cd/m² with 18.8 watts LED power

The LCD modified in this High Bright Solution meets AUO Incoming Inspection Standard for TFT-LCD Modules (A+)

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals

10/01/2014



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

16.2M colors

700:1 typical contrast ratio

60% color gamut (NTSC color space)

Display Mode Normally White

For complete LCD specification (standard panel), refer to AUO datasheet G150XG01 V3

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-E120205-2033 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*

10/01/2014

Symbol	Parameter	Value	Unit
Top	Operating temperature of display (center of panel surface)	-30 to +85	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +80	Deg-C
Tstg	Display storage temperature	-30 to +85	Deg-C
Ifwd	LED forward current (DC)	82	mA

*Maximum Ratings are those values beyond which damage may occur

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 68.3mA per LED bank, (LED rail ACR-0923-2074, 3 banks per rail, 1 rail per display), Ta = +25Deg-C, LCD un-powered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		1350	1500	1650	cd/m ²
X	White X coordinate			0.262		-
Y	White Y coordinate			0.284		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 68.3mA per LED bank, 3 banks 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

