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ACD-AU150-2367

PRELIMINARY DATA SHEET – PAGE 1 OF 2

15.0" XGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

The ACD-AU150-2367 consists of the AUO G150XG01 V4 XGA TFT display modified with a high performance LED backlight. The resulting performance exceeds that of the standard LED equipped backlight by 1.5 to 1

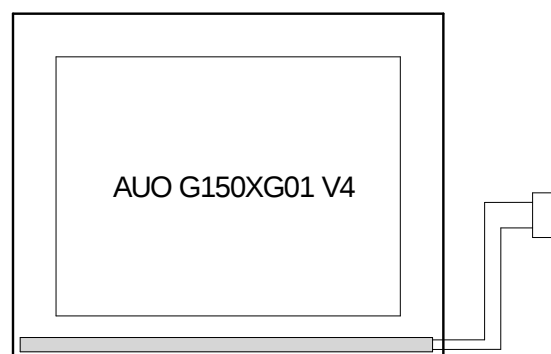
Performance at given brightness levels

1300 cd/m² with 26.6 watts LED power

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals

07/24/13



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)

For complete LCD specification (standard panel), refer to AUO datasheet G150XG01 V4

LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire connection (Typically 8 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-E105280-1942 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*

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Symbol	Parameter	Value	Unit
Top	Operating temperature of display (center of panel surface)	-10 to +60	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)	112	mA

*Maximum Ratings are those values beyond which damage may occur

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 93.3mA 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		1170	1300	1430	cd/m ²
X	White X coordinate			0.266		-
Y	White Y coordinate			0.288		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 93.3mA 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		86	95	104	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

