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ACD-2253

PRODUCT DATA SHEET

01/21/13

19.0" SXGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

The ACD-2253 consists of the AUO M190EG01 V2 SXGA TFT display modified with a high performance LED backlight. The resulting performance exceeds that of the standard CCFL equipped backlight by 2.0 to 1

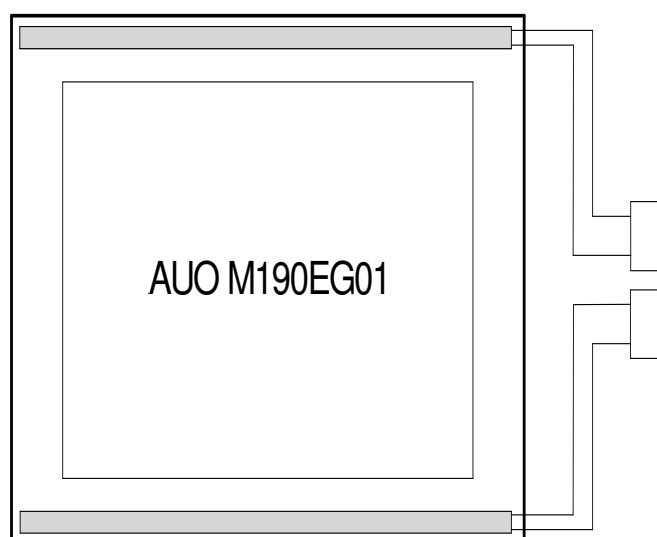
Customer Consigned Panel.

Performance at given brightness levels

1000 cd/m² with 44 watts LED power

Display outline identical to standard CCFL equipped panel

For many applications, satisfies sunlight readability goals



LCD PANEL HIGHLIGHTS

19.0" TFT Active Matrix Color

376.32 (H) mm x 301.056 (V) mm viewable area

SXGA 1280 x 1024 pixels, 16.2M colors

1300:1 typical contrast ratio

For complete LCD specification (standard panel), refer to AUO M190EG01 V2 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-E120230-2047 LED drivers. Two drivers required. One for top rail and one for bottom rail.

MAXIMUM RATINGS*

Symbol	Parameter	Value	Unit
Top	Operating temperature of display (center of panel surface)	0 to +50	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +85	Deg-C
Tstg	Display storage temperature	-20 to +60	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	92.0	mA

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

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 76.7mA per bank, LED rail ACR-0963-2010, 3 banks per rail, 2 rails per display, Ta = +25Deg-C, LCD powered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		900	1000	1100	cd/m ²
X	White X coordinate			0.285		-
Y	White Y coordinate			0.310		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 76.7mA 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		86	96	106	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

