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ACD-AU190-1895

PRODUCT DATA SHEET – PAGE 1 OF 2

19.0" SXGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

The ACD-AU190-1895 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 1.50 to 1

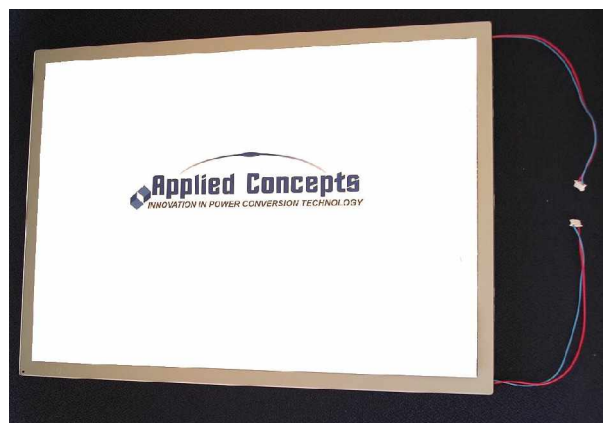
Performance at given brightness levels

1000 cd/m² with 53 watts LED power

Display outline identical to standard CCFL equipped panel

For many applications, satisfies sunlight readability goals

03/22/10



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 datasheet M190EG01 V2

LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire connection (Typically 11 inches long), allows simple interconnect with LED driver(s).

Projected lifetime > 75,000 hours

Active fault protection keeps remaining LEDs operating normally if one should ever fail

1000:1 or better dimming ratio, guaranteed

MAXIMUM RATINGS*

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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)	-20 to +75	Deg-C
Tstg	Display storage temperature	-20 to +60	Deg-C
Ifwd	LED Forward Current	125	mADC

* Maximum Ratings are those values beyond which damage may occur.

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 62.5mA per bank (LED rail ACR-1054-1891, 4 banks per rail), Ta = +25Deg-C, LCD un-powered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		900	1000	1100	cd/m ²
X	White X coordinate			0.329		-
Y	White Y coordinate			0.376		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 62.5mA per bank, 4 banks per rail, 2 rails per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		94	105	116	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

