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ACD-CH150-1904

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-CH150-1904 consists of the Chi Mei G150X1-L03 XGA TFT LCD Display modified with a high performance LED backlight. The resulting performance exceeds that of the standard CCFL equipped backlight by 1.5 to 1

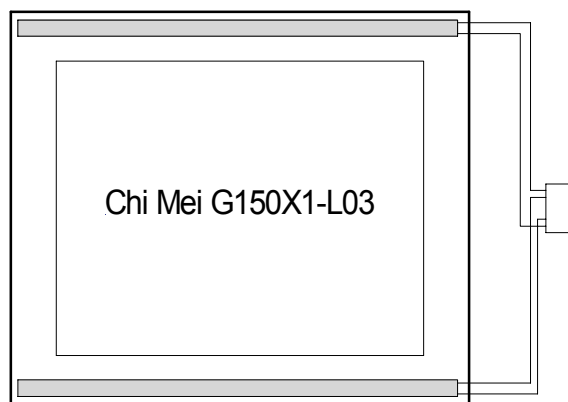
Performance at given brightness levels

1700 cd/m² with 23 watts LED power

Display outline identical to standard CCFL equipped panel

For many applications, satisfies sunlight readability goals

04/19/10



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, 16,777,216 colors

700:1 typical contrast ratio

For complete LCD specification (standard panel), refer to Chi Mei G150X1-L03

LED BACKLIGHT FEATURES

White LED edge-light rail

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

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)	-30 to +80	°C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +80	°C
Tstg	Display storage temperature	-40 to +85	°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 (Dual Rail Set ACR-0924-1920, 2 banks per rail, 2 rails per Dual Rail Set, 1 Dual Rail Set per Display), Ta = +25° C, LCD un-powered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		1530	1700	1870	cd/m ²
X	White X coordinate			0.329		-
Y	White Y coordinate			0.378		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 62.5mA per bank (Dual Rail Set ACR-0924-1920, 2 banks per rail, 2 rails per Dual Rail Set, 1 Dual Rail Set per Display), Top = +25° C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		82	92	102	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

