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ACD-CH154-2408

PRODUCT DATA SHEET – PAGE 1 OF 2

15.4" WXGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

The ACD-CH154-2408 consists of the Chi Mei G154I1-LE1 WXGA TFT display modified with a high performance LED backlight.

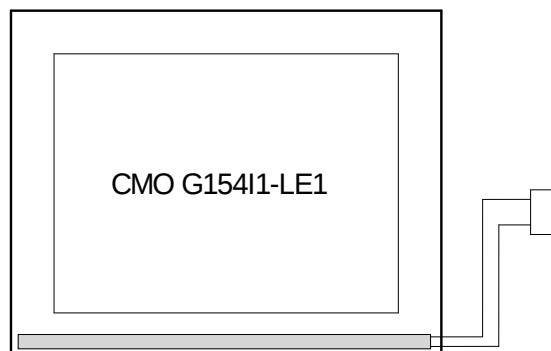
Performance at given brightness levels

1100 cd/m² with 28.9 watts LED power

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals

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LCD PANEL HIGHLIGHTS

15.4" TFT Active Matrix Color

331.2 (H) mm x 207.0 (V) mm viewable area

WXGA 1280 x 800 pixels

262k/16.2M colors

700:1 typical contrast ratio

For complete LCD specification (standard panel), refer to CMO datasheet G154I1-LE1

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)	-30 to +80	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +80	Deg-C
Tstg	Display storage temperature	-30 to +80	Deg-C
Ifwd	LED forward current (DC)	112.0	mA

*Maximum Ratings are those values beyond which damage may occur

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 93.3mA per LED bank, (LED rail ACR-1033-2396, 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		990	1100	1210	cd/m ²
X	White X coordinate			0.262		-
Y	White Y coordinate			0.284		-

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		93	103	113	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

