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ACD-2505

PRODUCT DATA SHEET – PAGE 1 OF 2

7.0" WVGA LED BACKLIT TFT DISPLAY

Sunlight Readability 1000:1 dimming/Cool operation

GENERAL DESCRIPTION

The ACD-2505 consists of the CMO G070Y2-L01 WVGA TFT display modified with a high performance LED backlight.

Customer Consigned Panel.

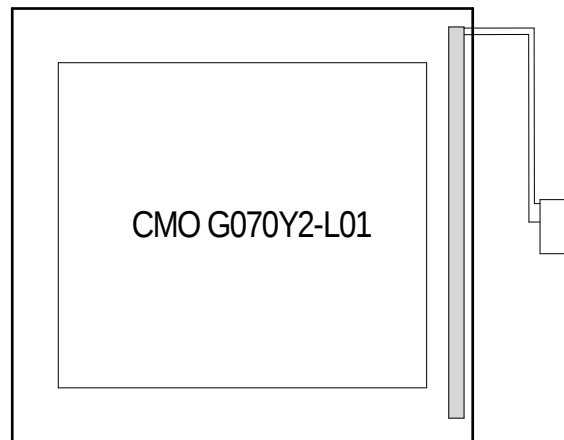
Performance at given brightness levels

1750 cd/m² with 6.6 watts LED power

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals

09/06/2017



LCD PANEL HIGHLIGHTS

7.0" TFT Active Matrix Color

165.00 (H) mm x 104.00 (V) mm viewable area

WVGA 800 x 480 pixels, 16.8M/262k colors

600:1 typical contrast ratio

40% color gamut (NTSC color space)

Display Mode Normally White

For complete LCD specification (standard panel), refer to the CMO G070Y2-L01 datasheet

LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire connection (8 inches long), allows simple interconnect with LED driver¹

Projected lifetime > 75,000 hours

1000:1 or better dimming ratio (Day)¹

¹ For best power transfer and control, use ACI-A065120-2674 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

09/06/2017

Symbol	Parameter	Value	Unit
Top ¹	Operating temperature of display (center of panel surface)	-30 to +85	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +90	Deg-C
Tstg ¹	Display storage temperature	-40 to +90	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	138	mA

* Maximum Ratings are those values beyond which damage may occur

¹ Per Manufacturers Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd= 120mA per bank, LED rail ACR-0571-2506, 1 bank per rail, 1 rail per display, Ta = +25Deg-C, moving air (36.0 CFM), min 2 hr soak

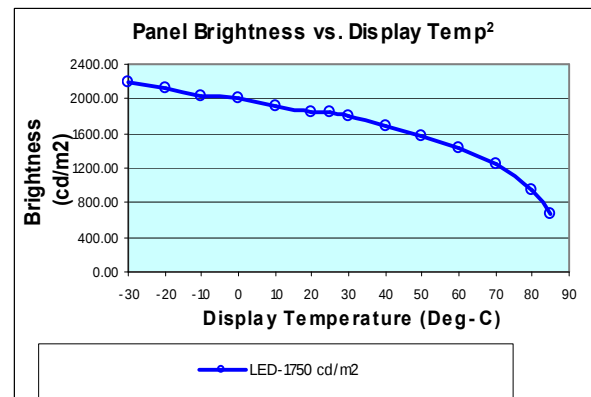
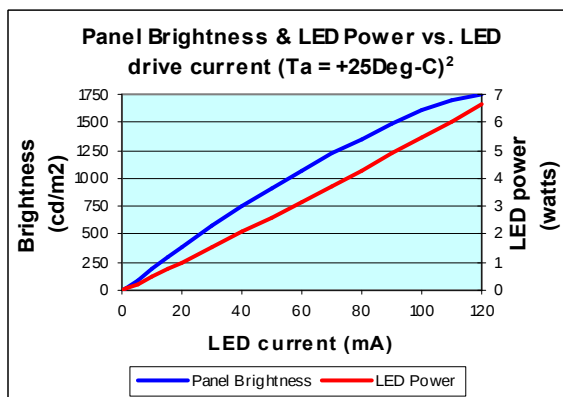
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		1575	1750	1925	cd/m ²
X	White X coordinate			0.316		-
Y	White Y coordinate			0.376		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd= 120mA, LED rail ACR-0571-2506, 1 bank per rail, 1 rail per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		49	55	61	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS



² Moving air (36.0 CFM)