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ACD-2909

PRODUCT DATA SHEET – PAGE 1 OF 3

15.4" WXGA LED BACKLIT TFT DISPLAY WITH NVIS WHITE CAPABILITY

GENERAL DESCRIPTION

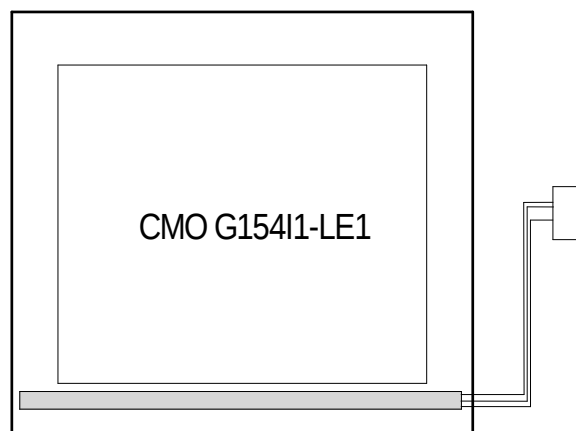
The ACD-2909 consists of the CMO G154I1-LE1 WXGA TFT display modified with a high performance LED backlight capable of Day and NVIS White operation.

Customer Consigned Panel

Performance at given brightness levels

1100 cd/m² with 25.4 watts LED power (Day)
3.8 cd/m² with 4.6 watts LED power (NVIS)

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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
16.2 M (8 bit/color) 262K (6 bit/color)
700:1 typical contrast ratio
Display Mode Normally White
RoHs compliant

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

LED BACKLIGHT FEATURES

Day and NVIS LED edge-light rail

Three wire connection (Typically 11 inches long), allows simple interconnect with LED driver¹

Projected lifetime > 75,000 hours

5,000:1 or better dimming ratio (Day)¹

¹ For best power transfer and control, use one ACI-2429 Dual Mode LED Driver.

MAXIMUM RATINGS

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Symbol	Parameter	Value	Unit
Top ¹	Operating temperature of display (center of panel surface)	-30 to +80	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-40 to +85	Deg-C
Tstg ¹	Display storage temperature	-30 to +80	Deg-C
Ifwd	LED forward current (Day)	120	mA
Ifwd	LED forward current (NVIS)	42	mA

*Maximum Ratings are those values beyond which damage may occur

¹Per Manufacturer's Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd(Day) = 110mA per bank, 3 banks per rail, 1 rail per display, Ifwd(NVIS) = 40mA per bank, 1 bank per rail, LED rail: ACR-2457, Ta = +25Deg-C, LCD un-powered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bpd	Panel Brightness (Day)		990	1100	1210	cd/m ²
Bpn	Panel Brightness (NVIS)		3.4	3.8	4.2	cd/m ²
Xd	White X coordinate (Day mode)			0.250		-
Yd	White Y coordinate (Day mode)			0.274		-
XN	White X coordinate (NVIS)			0.280		-
YN	White Y coordinate (NVIS)			0.410		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

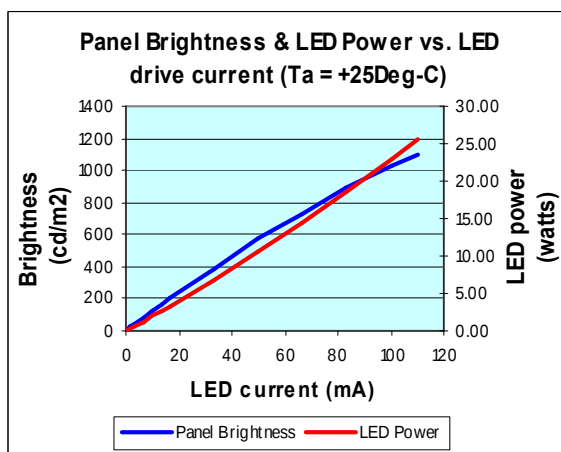
Ifwd(Day) = 110mA, Ifwd(NVIS) = 40mA, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop (Day mode)		69	77	85	Vdc
Vfwd	LED rail forward voltage drop (NVIS)		104	116	128	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

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Day mode



NVIS

