Vishay Dale



Plasma Display Modules

128 x 64 Graphics Display with Drive Electronics and TTL Level Data Interface



- TTL level video interface
- Slim profile
- Bright and vivid graphics
- Low DC power consumption
- > 50,000 hour MTBF
- 30:1 contrast ratio
- Very affordable

The APD-128G064 DC plasma display offers viewing qualities designers seek such as high contrast, viewing angle of 150°C minimum and excellent readability. Its bright (50 foot Lambert minimum) with characters and graphics figures presented in a pleasing neon orange color against a black background. Plasma is much more readable and eve-pleasing than liquid crystal or vacuum fluorescent displays and is filterable to red, amber or neutral density.

These plasma display panels are driven in a standard row-column refresh method much like a CRT display. The designer need only supply TTL level signals for SERIAL DATA, DOT CLOCK, COLUMN LATCH, ROW DATA, ROW CLOCK and DISPLAY ENABLE. The SERIAL DATA is entered with the DOT CLOCK up to frequencies as high as 8mHz. After a row of 128 pixels is clocked in, the COLUMN LATCH signal is toggled and the data is latched. At the time the data is latched, the display is breifly disabled using the DISPLAY ENABLE signal, then the row pointer is advanced with the ROW CLOCK signal. Once each frame the ROW DATA must be asserted to synchronize the column serial data with the beginning row. The recommended scanning frequency is approximately 70 Hz, but may be as high as 200 Hz. The high clock rate on the data clock allows for rapid refresh and maximum access time to the refresh jam.

ELECTRICAL SPECIFICATIONS

Voltage (s) Required: + 75 VDC, - 110 VDC, + 5 VDC, Vcc + 12 VDC. (12 VDC to be referenced to - 110 VDC) **Power Required:** Typical = 2 watts. Maximum = 7 watts.

IGH CONTRAST

COST

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OPTICAL SPECIFICATIONS

Viewing Area: 5.108" [129.74mm] W x 2.548" [64.72mm] L. Character Array: 16 x 8 (using 8 x 8 block), 21 x 8 (using 6 x 8 block).

Character Size: 0.267" [6.78mm] H x 0.187" [4.75mm] W. Pixel Size: 0.028" [.711mm] square. Pixel Pitch: 0.040" [1.016mm]. Luminance: 50 foot lamberts.

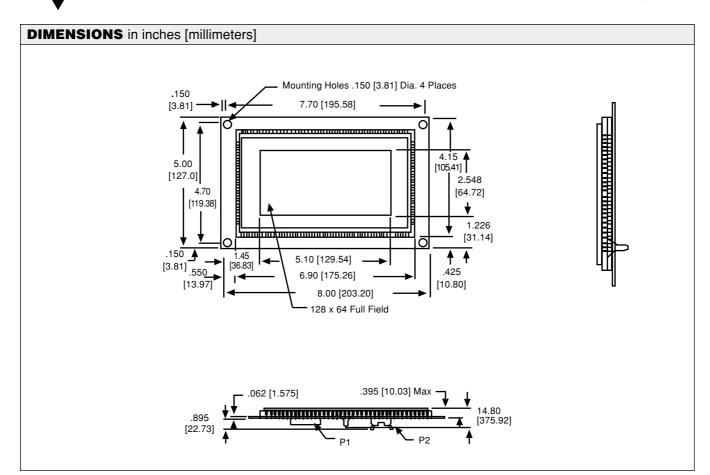
STANDARD ELECTRICAL SPECIFICATIONS					
DESCRIPTION	SYMBOL	MIN.	TYP.	MAX.	UNITS
Logic Supply	Vcc	+ 4.5	+ 5.0	+ 5.5	VDC
Anode Supply	Vsp	-	+ 75	+ 80	VDC
Cathode Supply	Vsn	-	- 110	- 125	VDC
Cathode Control**	Vrw	+ 10.8	+ 12.0	+ 15.0	VDC
Total + Vsp & - Vsn	Vtot	170	185	205	VDC
Logic 1 Input	Vih	2.0	-	-	VDC
Logic 0 Input	Vil	-	-	0.8	VDC

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APD-128G064

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ORDERING INFORMATION

VISHA

DESCRIPTION	PART NUMBER
Display, Driver Electronics and TTL Interface	APD-128G064
Data Connector Kit	
Power Connector Kit	