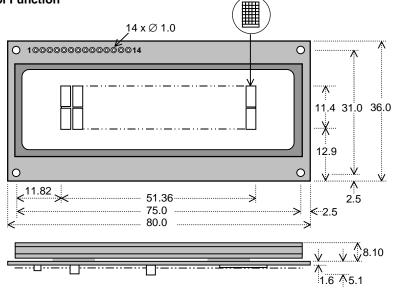
5X7 Dot Character VFD Module

CU16025ECPB-W6J

- 2 X 16 Characters 5mm High
- □ LCD Compatible Design
- □ Operating Temp -40°C to +85°C
- □ Single 5V Supply with Power Save Mode
- ☐ High Brightness Blue Green Display
- □ Selectable 4/8 bit M68/i80 Interface
- □ ASCII + Extended Character Font
- 8 User Definable Character RAM4 Level Brightness Control Function

The module includes the Vacuum Fluorescent Display glass, driver and micro-controller ICs with refresh RAM, character generator and interface logic.

The high speed 8 bit parallel interface is 5V CMOS compatible suitable for connection to a host CPU bus which can be set to M68 or i80 series interface by a solder link on the module. Brightness control and power down functions are provided. A full data sheet is available.



Dimensions in mm & subject to tolerances. Mounting holes 2.5mm dia.

ELECTRICAL SPECIFICATION

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Parameter	Symbol	Value	Condition		
Power Supply Voltage	Vcc	5.0VDC +/- 5%	GND=0V		
Power Supply Current	Icc	150mADC typ.	Vcc=5V		
Logic High Input	ViH	2.0VDC min.	Vcc=5V		
Logic Low Input	VIL	0.8VDC max.	Vcc=5V		
Logic High Output	Vон	Vcc-0.4VDC min.	Iон = -1.6mA		
Logic Low Output	Vol	0.4VDC max.	Iон =1.6mA		

The power on rise time should be less than 50ms. The inrush current at power on can be 2 x lcc.

The Icc current is 10mA maximum while in power down mode.

OPTICAL and ENVIRONMENTAL SPECIFICATIONS

Parameter	Value
Character Size/Pitch (XxY mm)	2.46 x 4.76/3.26 x 6.01
Dot Size/Pitch (XxY mm)	0.38 x 0.56/0.52 x 0.7
Luminance	700 cd/m ² (204 fL) Typ.
Colour of Illumination	Blue-Green (Filter for more colours)
Operating Temperature	-40°C to +85°C
Storage Temperature	-50°C to +85°C
Operating Humidity (non condensing)	20 to 80% RH @ 25°C

SOFTWARE COMMANDS

Instruction	R/W	RS	D0-D7
Clear Display	L	ш	01H
Cursor Return Home	L	L	02H-03H
Entry Mode Set	L	L	04H-07H
Display ON/OFF	L	L	08H-0FH
Cursor/Display Shift	L	L	10H-1FH
Function Set	L	L	20H-3FH
Brightness Set	L	Н	00H-03H
Set CG RAM Addr.	L	L	40H-7FH
Set DD RAM Addr.	L	L	80H-E7H
Read BUSY/Addr.	Н	L	00H-FFH
Write Data to RAM	L	Н	00H-FFH
Read Data from RAM	Н	Н	00H-FFH

PIN CONNECTIONS

Pin	Sig	Pin	Sig
1	GND	2	Vcc
3	(F _{NC})	4	RS
5	R/W #	6	E#
7	DB0	8	DB1
9	DB2	10	DB3
11	DB4	12	DB5
13	DB6	14	DB7

TIMING PARAMETERS (min)

(E)nable Cycle Time	1000ns
(E)nable Pulse Width	450ns
Hold after (E)nable	10ns

CHARACTER FONT

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JUMPER LINKS

Interface M68/i80 When jumper link JP2 is soldered, these inputs change to i80 series CPU control lines. Pin 5= /WR Pin 6 = /RD

Pin 3 (Fnc) Input

This is normally open circuit If pads JP1.1 and JP1.2 are linked. Pin 3 = /Reset.

CONTACT

Noritake Sales Office Tel Nos Nagoya Japan: +81 (0)52-561-9867 Canada: +1-416-291-2946 Chicago USA: +1-847-439-9020 Munchen (D): +49 (0)89-3214-290 Itron UK: +44 (0)1493 601144 Rest Europe: +49 (0)61-0520-9220 www.noritake-elec.com

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