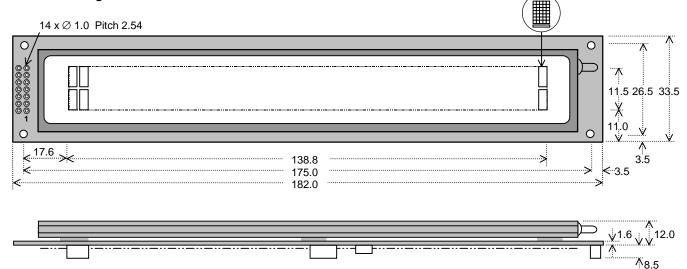
5X7 Dot Character VFD Module

CU40025SCPB-W1J

- 2 X 40 Characters 5mm High
- LCD Compatible Design
- Wide 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
- **B** User Definable Character RAM
- **4** 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 save functions are provided. Please call for a full data sheet.



Dimensions in mm & subject to tolerances. Mounting holes 3.5mm dia.

CHARACTER FONT

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ELECTRICAL SPECIFICATION

Parameter	Symbol	Value	Condition				
Power Supply Voltage	Vcc	5.0VDC +/- 5%	GND=0V				
Power Supply Current	lcc	330mADC typ.	Vcc=5V				
Logic High Input	Vih	2.2VDC min.	Vcc=5V				
Logic Low Input	VIL	0.6VDC max.	Vcc=5V				
Logic High Output	Voн	Vcc-0.5VDC min.	Іон = -1.6mA				
Logic Low Output	Vol	0.4VDC max.	IoL=1.6mA				
The power on rise time should be less	s than 50ms The	inrush current at power o	n can be 2 x loc				

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

OPTICAL and ENVIRONMENTAL SPECIFICATIONS

Parameter	Value							
Character Size/Pitch (XxY mm)	2.3 x 4.7/3.5 x 6.1							
Dot Size/Pitch (XxY mm)	0.38 x 0.5/0.48 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	L	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	(FNC)	4	RS
5	R/W #	6	E #
7	D0	8	D1
9	D2	10	D3
11 13	D4	12	D5
13	D6	14	D7

TIMING PARAMETERS (min)

(E)nable Cycle Ti	
(E)nable Pulse W	/idth 300ns
Hold after (E)nab	le 10ns

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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

<u>Pin 3 (Fnc) Input</u> This is normally open circuit. If pads JP4.1 and JP4.2 are linked. Pin 3 = /Reset.

NORITAKE ITRON VFD MODULES

2x40, 5mm Dot Character