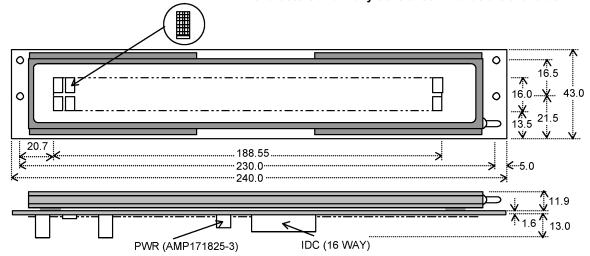
5X7 Dot Character VFD Module

CU40026-TW200A

- 2 Lines of 40 Characters 5mm High
- High Speed Parallel/Serial Interface
- Operating Temp -40°C to +85°C
- Single 5V Supply
- High Brightness Blue Green Display
- **ASCII, Katakana & Extended Character Font**
- 2 User Definable Character RAM

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. The asynchronous serial interface accepts baud rates up to 19,200 with or without parity. Two character font tables can be hardware or software selected. User defined characters and many control commands are available.



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

International Font

ELECTRICAL SPECIFICATION

Parameter	Symbol	Value	Condition
Power Supply Voltage	Vcc	5.0VDC +/- 5%	GND=0V
Power Supply Current	lcc	500mADC 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	4.4VDC min.	юн = -2.0mA
Logic Low Output	Vol	0.5VDC max.	loL =2.0mA

The power on rise time should be less than 100ms. The inrush current at power on can be 2 x lcc.

OPTICAL and ENVIRONMENTAL SPECIFICATIONS

Parameter	Value
Character Size/Pitch (XxY mm)	3.3 x 5.05/4.75 x 9.95
Dot Size/Pitch (XxY mm)	0.5 x 0.55/0.7 x 0.75
Luminance	700 cd/m² (204 fL) Typ.
Colour of Illumination	Blue-Green (Filter for colours)
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Operating Humidity (non condensing)	20 to 80% RH @ 25°C

SOFTWARE COMMANDS

OOI THATE COMMENTED											
Instruction	D0-D7	Instruction	D0-D7								
Back Space	08H	International Font	18H								
Horizontal Tab	09H	Katakana Font	19H								
Line Feed	0AH	Euro Currency Mark	1AH								
Form Feed	0CH	Escape	1BH								
Carriage Return	0DH	➣ Send User Font	+43H								
Clear Display	0EH	➤ Position cursor	+48H								
Increment Write Mode	11H	➣ Software Reset	+49H								
Vertical Scroll Mode	12H	➤ Luminance	+4CH								
Horizontal Scroll Mode	13H	➣ Flickerless Write	+53H								
Underline Cursor On	14H	➤ Cursor Blink Speed	+54H								
5x7 Block Cursor On	15H	Character Data	20H+								
Cursor Off	16H	User Character Data	00H+								
Cursor Blinking	17H										

TIMING PARAMETERS (min)

	\/
Data Set Up To Write	100ns
Write Pulse Width	160ns
Hold After Write	10ns

Subject to change without notice. Detailed specification on request. IUK Doc Ref:4406 lss:1 13Aug03

CHARACTER FONTS 00 10 20 30 40 50 60 70 80 90 A0 B0 C0 D0 E0 F0 80 90 A0 B0 C0 D0 E0 F0

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PCB JUMPERS (O)PEN (L)INK

Baud	J2	7	1	J0				
19200	0)	0				
9600	0)	L				
4800	0		L	0				
2400	0		_	L				
1200	L		0					
Parity	J4		J3					
EVEN	0		0					
ODD	0		L					
NONE		L/O						
F		JA						
Interr		L						
Kata		0						
A DIN DOWED CONNECTOR								

3 PIN POWER CONNECTOR

Pin	Sig
1	Vcc(5V)
2	SIN/TEST
3	GND (0V)

IDC DATA CONNECTOR

Additional Katakana Font

Pin	Sig	Pin	Sig								
1	D7	9	/WR								
2	D6	10	/CS								
3	D5	11	SIN/TEST								
4	D4	12	BUSY								
5	D3	13	GND (0V)								
6	D2	14	GND (0V)								
7	D1	15	Vcc(5V)								
8	D0	16	Vcc(5V)								

CONTACT

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