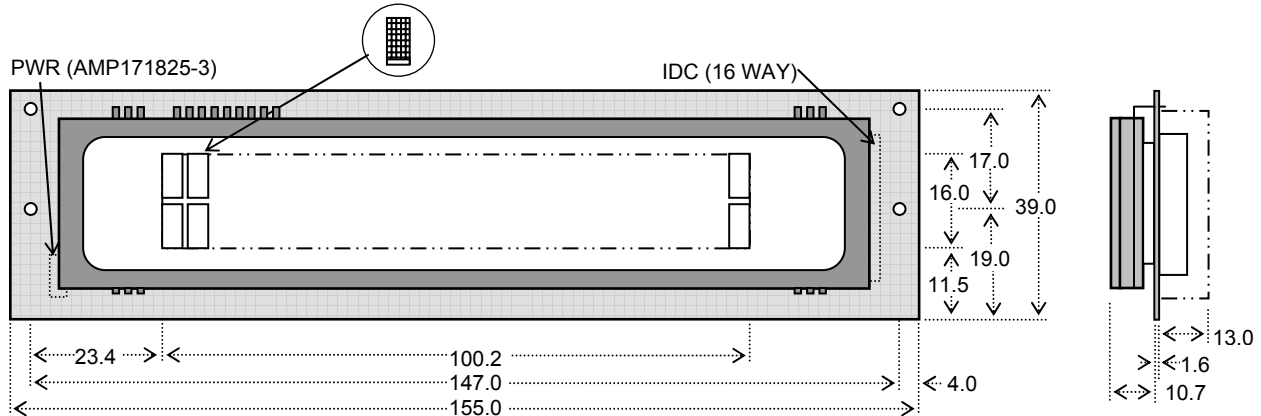


5X7 Dot Character VFD Module

CU20026-TW200A

- ❑ 2 Lines of 20 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
- ❑ 8 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.



ELECTRICAL SPECIFICATION

Parameter	Symbol	Value	Condition
Power Supply Voltage	V _{CC}	5.0VDC +/- 5%	GND=0V
Power Supply Current	I _{CC}	290mADC typ.	V _{CC} =5V
Logic High Input	V _{IH}	2.0VDC min.	V _{CC} =5V
Logic Low Input	V _{IL}	0.8VDC max.	V _{CC} =5V
Logic High Output	V _{OH}	4.4VDC min.	I _{OH} = -2.0mA
Logic Low Output	V _{OL}	0.5VDC max.	I _{OL} =2.0mA

The power on rise time should be less than 100ms. The inrush current at power on can be 2 x I_{CC}.

OPTICAL and ENVIRONMENTAL SPECIFICATIONS

Parameter	Value
Character Size/Pitch (XxY mm)	3.3 x 5.05/5.1 x 9.95
Dot Size/Pitch (XxY mm)	0.5 x 0.55/0.7 x 0.75
Luminance	700 cd/m ² (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

Instruction	D0-D7	Instruction	D0-D7
Back Space	08H	Blinking Cursor	17H
Horizontal Tab	09H	International Font	18H
Line Feed	0AH	Katakana Font	19H
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+

TIMING PARAMETERS (min)

Data Set Up To Write	100ns	Subject to change without notice.
Write Pulse Width	160ns	Detailed specification on request.
Hold After Write	10ns	IUK Doc Ref: 4404 Iss:1 12Aug03

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

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
00																								
01																								
02																								
03																								
04																								
05																								
06																								
07																								
08																								
09																								
0A																								
0B																								
0C																								
0D																								
0E																								
0F																								

PCB JUMPERS (O)PEN (L)INK

Baud	J2	J1	J0
19200	O	O	O
9600	O	O	L
4800	O	L	O
2400	O	L	L
1200	L	O	O
Parity	J4		J3
EVEN	O		O
ODD	O		L
NONE	L		L / O
Font		JA	
International		L	
Katakana		O	

3 PIN POWER CONNECTOR

Pin	Sig
1	V _{CC} (5V)
2	SIN/TEST
3	GND (0V)

IDC DATA CONNECTOR

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	V _{CC} (5V)
8	D0	16	V _{CC} (5V)

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