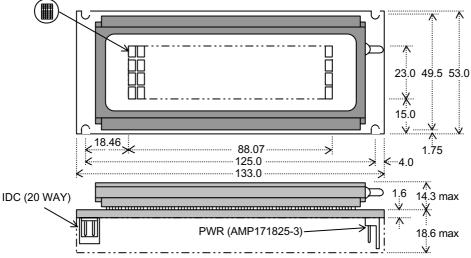
5X7 Dot Character VFD Module

CU20045SCPB-W20A

- 4 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 Fonts**

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 slots 3.5mm dia.

International Font

Additional Katakana Font

ELECTRICAL SPECIFICATION

ELECTRICAL SPECIFICATION									
Parameter	Symbol	Value	Condition						
Power Supply Voltage	Vcc	5.0VDC +/- 5%	GND=0V						
Power Supply Current	lcc	400mADC 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	2.4VDC min.	юн = -2.0mA						
Logic Low Output	Vol	0.5VDC max.	loL =2.0mA						

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

OPTICAL and ENVIRONMENTAL SPECIFICATIONS

Parameter	Value
Character Size/Pitch (XxY mm)	2.95 x 5.0/4.48 x 6.0
Dot Size/Pitch (XxY mm)	0.39 x 0.5/0.64 x 0.75
Luminance	350 cd/m ² (102 fL) Min.
Colour of Illumination	Blue-Green (Filter for colours)
Operating Temperature	-40°C to +85°C
Storage Temperature	-50°C to +85°C
Operating Humidity (non condensing)	20 to 90% RH @ 25°C

SOFTWARE COMMANDS

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

TIMING PARAMETERS (min)

	(····· <i>)</i>
Data Set Up To Write	50ns
Write Pulse Width	120ns
Hold After Write	10ns

Subject to change without notice. Detailed specification on request. IUK Doc Ref:03341 Iss.1 3 Apr 01

CHARACTER FONTS

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IDC DATA CONNECTOR

Pin	Sig	Pin	Sig
1	D7	11	SIN/TEST
2	D6	12	BUSY
3	D5	13	GND (0V)
4	D4	14	GND (0V)
5	D3	15	Vcc(5V)
6	D2	16	Vcc(5V)
7	D1	17	GND (0V)
8	D0	18	/BL
9	/WR	19	GND (0V)
10	/CS	20	/RESET

3 PIN POWER CONNECTOR

Sig
Vcc(5V)
SIN/TEST
GND (0V)

Mates with AMP171822-3

PCB JUMPERS (O)PEN (L)INK

J2	J	1	J0
0	()	0
0	()	L
0		_	0
0		_	L
L	()	0
J4			J3
0			0
0			L
L			L/O
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