

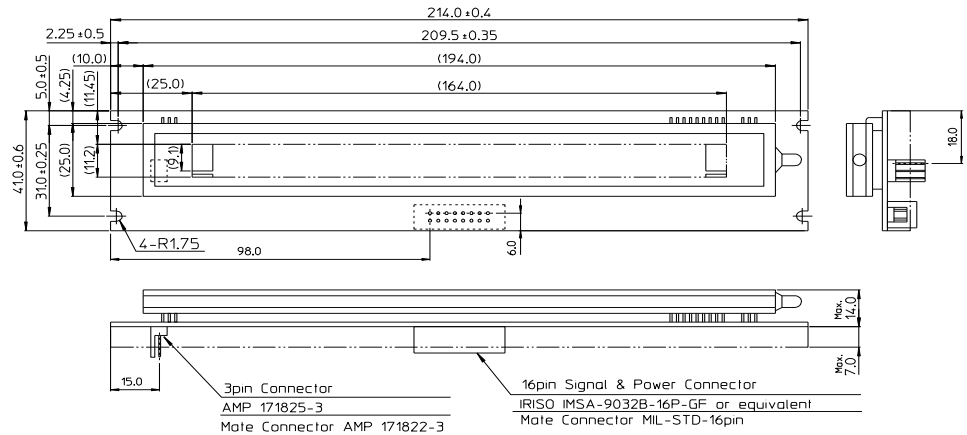
# CU209-TW200A

## SIMPLIFIED DATASHEET

### Features

20 character x 1 line display character module.  
Wide illuminating surface for enhanced visibility.

### Outer dimension



( ):Reference Only  
UNIT:mm

### Get full specification



**Click here** to go to request form.

### Specifications

#### Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Power supply voltage	VCC	4.75	5.00	5.25	VDC	-

#### Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Input Voltage	H	VIH	0.8VCC	-	VCC	Vcc=5.0V
	L	VIL	0	-	0.3VCC	VDC TA=25°C
Output Voltage	H	VOH	VCC-1.5	-	-	IOH=-5mA
	L	VOL	-	-	1.5	IOL=5mA
Power Supply Current	Icc	-	360	470	mADC	All dots ON

#### Optical Characteristics

Parameter	Value
Luminance	685 cd/m <sup>2</sup> Min.
Color of illumination	Green (Blue-Green)

#### Environmental Conditions

Parameter	Value
Operating Temperature	-40 ~ +85 degrees celsius
Storage Temperature	-40 ~ +85 degrees celsius
Operating Humidity	20 ~ 80% R.H. (non-condensing)
Vibration (Non operation)	10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z
Shock (non-operating)	980m/s <sup>2</sup> (100G) 9ms X-Y-Z, 3 times each direction

#### Physical Specifications

Parameter	Value
Number of Char.	20 (20 characters x 1 line)
Built-in Fonts	ANK, International Font
Character Format	5 x 7 dot matrix & Under line
Display Area	164.0 x 11.2 mm (X x Y)
Character Size	6.3 x 11.2 mm (X x Y)
Character Pitch	8.3 mm

#### Interface

Parallel, Asynchronous Serial (CMOS)

#### Pin Assignment (Parallel / Serial)

Pin No	Signal	Pin No	Signal
1	D7	2	D6
3	D5	4	D4
5	D3	6	D2
7	D1	8	D0
9	WR	10	CS
11	SN/TO	12	BUSY
13	GND	14	GND
15	VCC	16	VCC

(Serial)

Pin No	Signal	Baud Rate Setting
1	VCC	19200bps*
2	SN/TO	9600bps
3	GND	4800bps
		2400bps
		1200bps
		600bps
		(*:factory default)

#### Functions

Parameter	Value
Auto initialized	Yes
Command Control	Yes
Blink speed control	Yes
Flicker less Mode / Quick Write Mode	Yes
etc.	