Noritake itron

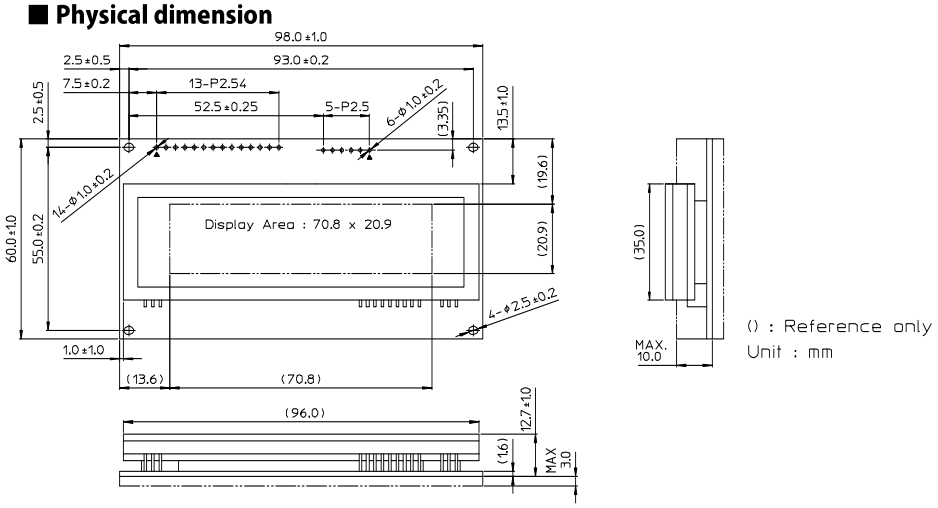
CU20045-UW5J

SIMPLIFIED DATASHEET

■ Features

20 character x 4 line display module, for showing large number of characters.
LCD controller HD44780 command compatible.

■ Physical dimension



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Specifications

■ Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Logic Input Voltage						
DB0-DB7, RS,R/W(WR),	VIH1	2.0	-	VCC	VDC	VCC-VSS= 5.0 V
E(RD),SCK, STB	VIL1	VSS	-	0.8		
Logic Input Voltage	VIH2	0.7VCC	-	VCC	VDC	VCC-VSS= 5.0 V
SI/SO	VIL2	VSS	-	0.3VCC		
Logic Input Voltage	VIH3	0.8VCC	-	VCC	VDC	VCC-VSS= 5.0 V
/RESET	VIL3	VSS	-	0.2VCC		
Power supply Voltage	VCC-VSS	4.75	5.00	5.25	VDC	-

■ Electrical Characteristics

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Logic Output Voltage	'H'	VOH	VCC-0.8	-	-	VDC	IOH = -4 mA
	'L'	VOL	-	-	0.6		IOL = 4 mA
	'H'	VOH	VCC-0.5	-	-	VDC	IOH = -2 mA
	'L'	VOL	-	-	0.5		IOL = 2 mA
Power Supply Current 1		ICC1	-	250	330	mA	Display ON
Power Supply Current 2		ICC2	-	7	12	mA	Display OFF
Power Consumption			-	1.25	1.65	W	Display ON

■ Optical Characteristics

Parameter	
Luminance	350 cd/m^2 Min.
Color of illumination	Green (Blue-Green)

■ Environmental Conditions

Parameter	
Operating Temperature	-40 ~ +85 degrees celsius
Storage Temperature	-50 ~ +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 operation)	539m/s^2 (55G) 10ms

■ Physical Specifications

Parameter	*ANK(Alphabet, Numeric, Kana)
Number of char.	80 (20 x 4)
Built-in Fonts	5 x 7 ANK, International
Display area	70.8 x 20.9 mm (X x Y)
Character size	2.4 x 4.7 mm (X x Y)
Character pitch	3.65 mm
Line pitch	5.4 mm
Weight	About 67 g

■ Interface

8bit/4bit Parallel(TTL), Synchronous Serial (CMOS)

■ Pin Assignment (Parallel)

Pin No	Signal	Pin No	Signal
1	GND	8	DB1
2	VCC	9	DB2
3	NC	10	DB3
4	RS	11	DB4
5	R/W(WR)	12	DB5
6	E(RD)	13	DB6
7	DB0	14	DB7

(Synchronous Serial)

Pin No	Signal
1	VCC
2	SI/SO
3	GND
4	STB
5	SCK
6	NC

■ Functions

Parameter
Command compatible with HD44780 LCD controller
Display ON/OFF
Brightness Control
Cursor ON/OFF
8 User definable character font
etc.

RoHS COMPLIANT

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