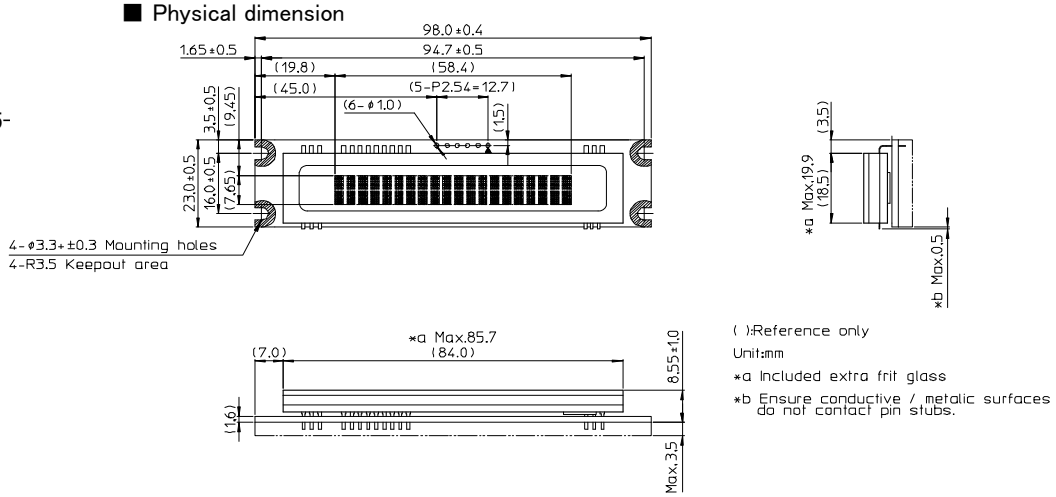
CU20024-UX3J

SIMPLIFIED DATASHEET

■ Features

20 character x 2 line display
LCD compatible module.
Compact version of CU20025-UX1J.

■ Physical dimension



Specifications

■ Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Logic Input Voltage	VIH1	2.0	–	VCC	VDC	VCC-VSS= 5.0 V
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		
Power supply Voltage	VCC-VSS	4.75	5.00	5.25	VDC	–

About

■ 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	–	170	220	mA	Display ON
Power Supply Current #2		ICC2	–	140	180	mA	Display ON
Power Supply Current 3		ICC3	–	7	20	mA	Display OFF
Power Consumption #1			–	0.85	1.10	W	Display ON
Power Consumption #2			–	0.70	0.90	W	Display ON

#1: Brightness 200% #2: Brightness 100%

■ Optical Characteristics

Parameter	
Luminance	350 cd/m^2 Min.
#1	1000 cd/m^2 Typ.
#2	2000 cd/m^2 Typ.
Color of illumination	Green(Blue-Green)

#1: Brightness 100% #2: Brightness 200%

■ 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.	40 (20 x 2)
Built-in Fonts	5 x 7 ANK, International
Display area	58.4 x 7.65 mm (X x Y)
Character size	2.065 x 3.569 mm (X x Y)
Character pitch	2.965 mm
Line pitch	4.081 mm
Weight	About 26 g

■ Interface

Synchronous Serial (CMOS)

(Synchronous Serial)

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

■ Functions

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

RoHS COMPLIANT

Leaflet contents, and specifitaions and external appearance of products, may change without notice.
Please confirm product details in the specification.
(C)Copyright NORITAKE ITRON CORP.