

Mechanical Data

Item	Standard Value	Unit
Module dimension	82.2 x 77.5	mm
Viewing area	60.0 x 60.0	mm
Mounting hole	76.1 x 65.5	mm
Dot Size	0.32 x 0.32	mm
Dot Pitch	0.34 x 0.34	mm

Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	3.0	3.3	3.6	V
Input Voltage	VI	0	--	VDD	V

Note: VSS=0 Volt, VDD=3.3 Volt.

Electronical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD-VSS	-	3.0	3.3	3.6	V
Supply Current	IDD	VDD=3.3V	0.15	0.2	0.4	mA
Recommended LC Driving Voltage for Normal Temp. Version module	Vout-Vss	-20°C	-	-	-	V
		25°C	-	16.5	-	
		+70°C	-	-	-	
LED Forward Voltage	VF	25°C	-	3.3	3.4	V
LED Forward Current	IF	25°C	-	64	-	mA

Feature

1. 160x160 dots includes cursor
2. Built-in controller UC1698U
3. + 3.3V power supply
4. 1/160 duty cycle

Pin No.	Symbol	Description
1	VSS	Ground
2	AO	H:Data L:Instruction
3	WR	WR[1:0] control the read/write operation of the host interface. See section Host interface for more detail. In parallel mode, the meaning of WR[1:0] depends on whether the interface is in the 6800 mode or the 8080 mode. In serial interface modes, these two pins are not used, connect them to Vss.
4	RD	8080 family: Read signal, 6800 family: R/W signal
5	XCS	
6	RST	When RST="L", all control registers are re-initialized by their default states. Since UC1698u has built-in Power-ON reset and software reset commands, RST pin is not required for proper chip operation. An RC Filter has been included on-chip. There is no need for external RC noise filter. When RST is not used, connect the pin to Vdd.
7	VDD	Auxiliary VDD. These pins are connected to the main VDD bus within the IC. These pads are provided to facilitate chip configurations in COG application. These pins should NOT be used to provide VDD power to the chip. It is not necessary to connect VDDx to main VDD externally.
8	DB0	Data bus line
9	DB1	Data bus line
10	DB2	Data bus line
11	DB3	Data bus line
12	DB4	Data bus line
13	DB5	Data bus line
14	DB6	Data bus line
15	DB7	Data bus line
16	LED-	LED-
17	NC	NC
18	LED+	LED+

COG type

RX160160B COG 160x160 dots

Dimension drawing

