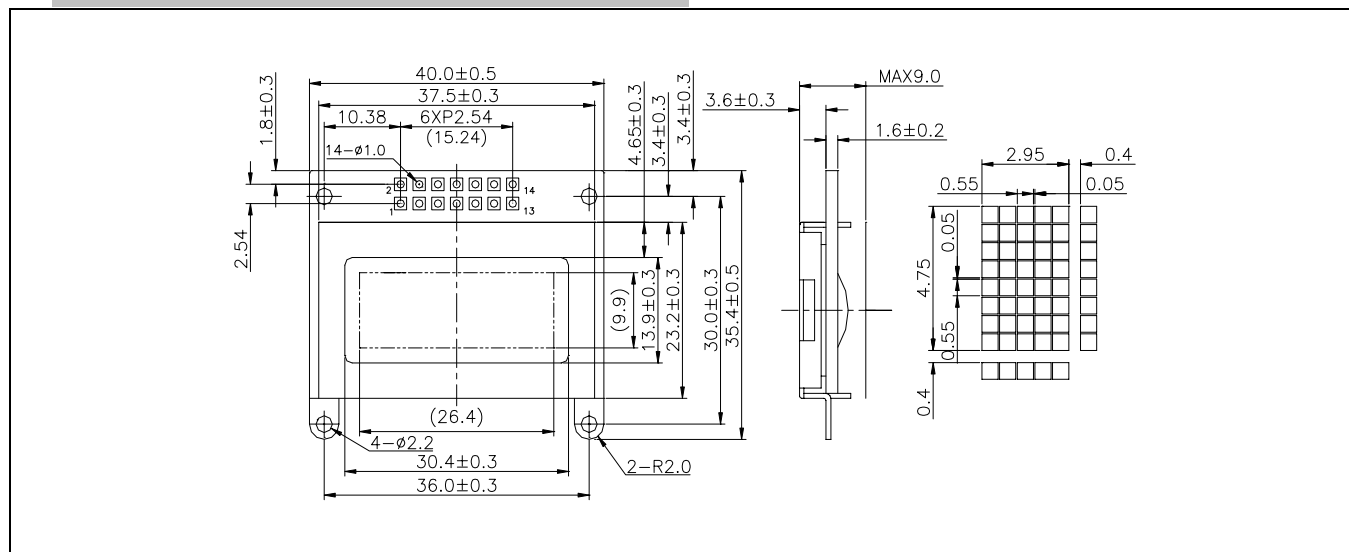


1、EXTERNAL DIMENSION AND DISPLAY PATTERN**2、MECHANICAL DATA**

ITEM	SPECIFICATION	UNIT
Module Size (W×H×T)	40.0×35.4×9.0	mm
Viewing Area (W×H)	30.4×13.9	mm
Character Font (W×H)	5×7 with Cursor	dots
Character Size (W×H)	2.95×4.75	mm
Character Pitch (W×H)	3.35×5.15	mm
Dot Size (W×H)	0.55×0.55	mm

3、PIN CONFIGURATION

PIN	SYMBOL	SIGNAL DESCRIPTION
1	V_{SS}	GND (0V)
2	V_{DD}	Power Supply
3	V_o	Supply Voltage LCD Driving
4	RS	Register Select Low = Instruction, High = Data
5	R/W	Read/Write Low = MPU to LCM, High = LCM to MPU
6	E	Enable R/W= Low : Data are talking over at falling edge R/W=High : Data can be read at E=1
7 ~ 14	DB ₀ to DB ₇	Data Bus-Software Selectable 4 or 8bit Mode

5、ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	MIN.	MAX.	UNIT
Supply Voltage (Logic)	$V_{DD} - V_{SS}$	-0.3	7.0	V
Supply Voltage (Driver)	V_o	$V_{DD} - 12$	$V_{DD} + 0.3$	V
Input Voltage	V_{IN}	-0.3	$V_{DD} + 0.3$	V

6、ELECTRICAL CHARACTERISTICS (Ta=25℃)

ITEM	SYMBOL	CONDITION	SPEC. VALUE			UNIT
			MIN.	TYP.	MAX.	
Supply Voltage (Logic)	$V_{DD} - V_{SS}$		4.5	5.0	5.5	V
Supply Current (Logic)	I_{DD}	$V_{DD}=5V$	-	0.8	2.0	mA
Input Voltage	"HIGH"	V_{IH}	-	2.2	-	V_{DD} V
	"LOW"	V_{IL}	-	-0.3	-	0.6 V
Output Voltage	"HIGH"	V_{OH}	$-I_{OH}=0.2mA$	2.4	-	V
	"LOW"	V_{OL}	$I_{OL}=1.2mA$	-	-	0.4 V
LCD Operating Voltage	$V_{DD} - V_o$	$V_{DD}=5V, Ta=25℃$	4.5	4.4 (7.8)	5.0	V
Supply Voltage LCD Drive	I_o		-	1.0	1.5	mA

Note (1) : () Value is high Reliability type

4、BLOCK DIAGRAM