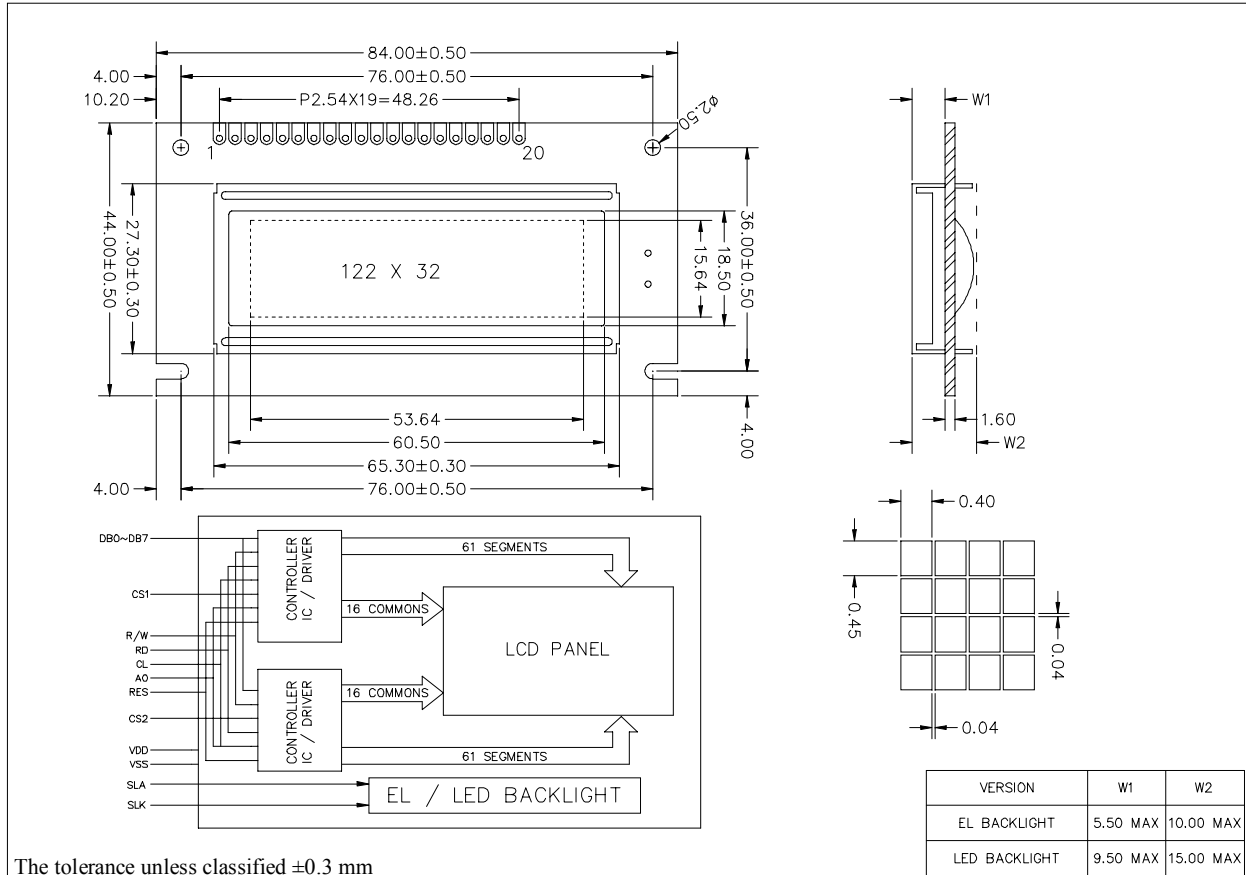


STANDARD GRAPHIC MODULES

CMG32122x02 OUTLINE DIMENSION AND BLOCK DIAGRAM

REF. NO. : CCTG0011-03



The tolerance unless classified ±0.3 mm

PIN ASSIGNMENT		
Pin No.	Symbol	Function
1	V _{SS}	Ground Terminal
2	V _{DD}	Supply Terminal
3	NC	No Connection
4	A0	Select Display Data / Instruction
5	CS1	Chip Select IC U1
6	CS2	Chip Select IC U2
7	V _{EE} *	Negative voltage for VLCD
8	NC	No Connection
9	WR	Write / Read Selection
10	DB0	Data Bus Line
11	DB1	Data Bus Line
12	DB2	Data Bus Line
13	DB3	Data Bus Line
14	DB4	Data Bus Line
15	DB5	Data Bus Line
16	DB6	Data Bus Line
17	DB7	Data Bus Line
18	RES	Reset
19	SLA	Led Backlight Power Supply
20	SLK	Led Backlight Ground

ABSOLUTE MAXIMUM RATING					
Item	Symbol	Conditions	Min.	Max.	Unit
Power Supply Voltage	V _{DD} -V _{SS}	-	-0.3	8	V
Input Voltage	V _{IN}	-	V _{SS}	V _{DD}	V
Operation Temperature	T _{OPR}	Nor	0	50	°C
Storage Temperature	T _{STG}	Nor	-20	70	°C

ELECTRICAL CHARACTERISTIC (V_{DD} = + 5v, T_a = 25°C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Logic Supply Voltage	V _{DD}	-	4.5	5.0	5.5	V
"H" Input Voltage	V _{IN}	-	V _{SS} +2.0	-	V _{DD}	V
"L" Input Voltage	V _{IL}	-	V _{SS}	-	V _{SS} +0.8	V
"H" Output Voltage	V _{OH}	-	V _{SS} +2.4	-	-	V
"L" Output Voltage	V _{OL}	-	-	-	V _{SS} +0.4	V
Module Supply Current	I _{DD}	-	-	2.5	-	mA
LCD Driving Voltage	V _{LCD}	V _{DD} -V _O	-	5.0	-	V

*If J1 is used : V_{DD} = 5V , V_{SS} = 0V (GND), V_{EE} = NC
 If J2 is used : V_{DD} = 2.4V~5V , V_{EE} = -2.6V~0V

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