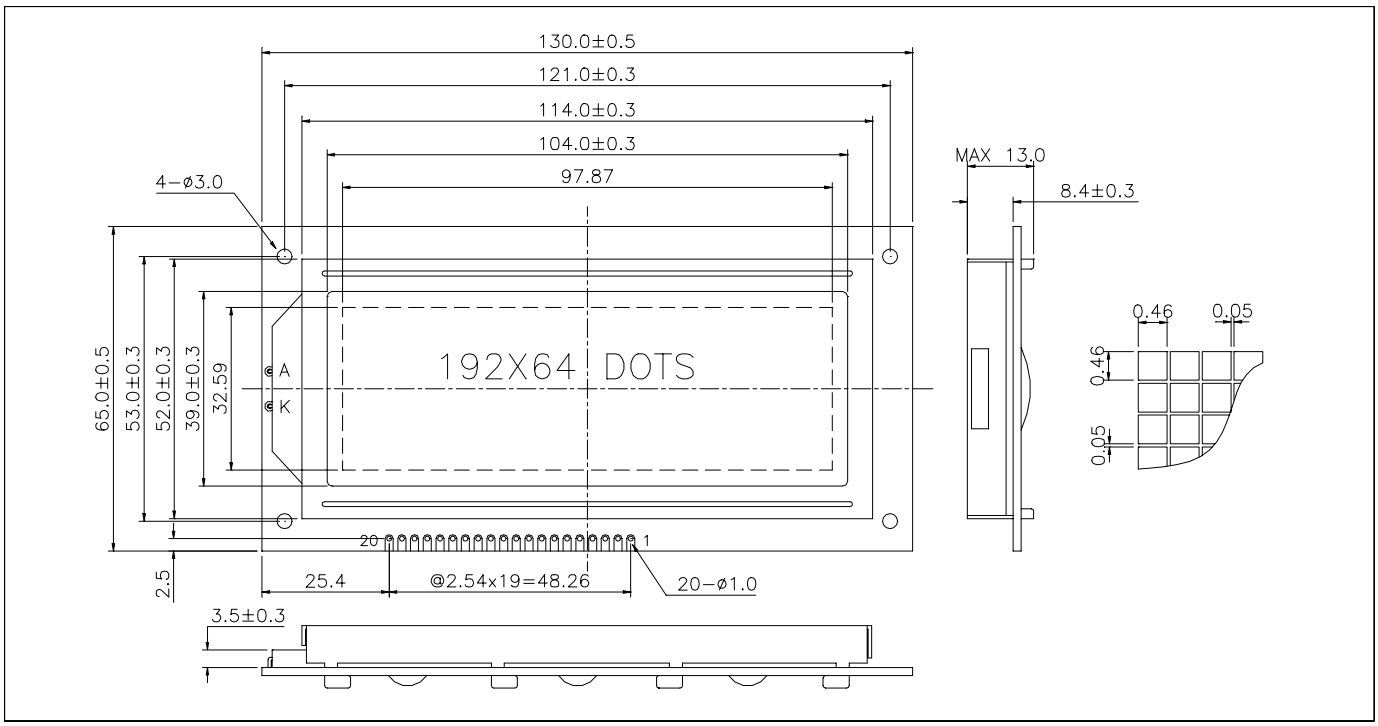
LG192642-DW 192 x 64 dots



ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V_{DD}- V_{SS}	-0.3	7.0	V
Supply Voltage(LCD)	V_{DD}- V_O	-0.3	19.0	V
Input Voltage	V_I	-0.3	V_{DD}+ 0.3	V
Operating Temp.	T_{opr}	-20	70	˚C
Storage Temp.	T_{stg}	-30	80	˚C

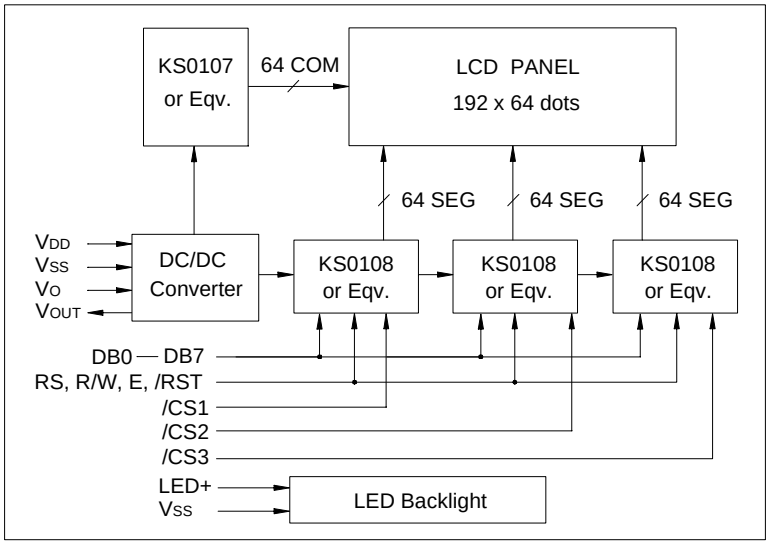
MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	130.0 x 65.0 x 13.0	mm
Viewing Area (W x H)	104.0 x 39.0	mm
Dot Pitch (W x H)	0.51 x 0.51	mm
Dot Size (W x H)	0.46 x 0.46	mm
Weight (Reflective/LED)	Approx. 110	g

ELECTRICAL CHARACTERISTICS (V_{DD}=5V±0.25V)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	V_{IH}	--	2.0	--	V_{DD}	V
Input Low Voltage	V_{IL}	--	- 0.3	--	0.8	V
Output High Voltage	V_{OH}	I_{OH} = - 0.2mA	2.4	--	V_{DD}	V
Output Low Voltage	V_{OL}	I_{OL} = 1.6mA	0	--	0.4	V
Supply Current	I_{DD}	V_{DD} = 5.0V	--	8.0	10.0	mA
LCD Driving Voltage	V_{DD} - V_O	Ta=25˚C	--	12.7	--	V

BLOCK DIAGRAM



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V_{SS}	--	GND (0V)
2	V_{DD}	--	Supply Voltage for Logic(+5V)
3	V_O	--	Supply Voltage for LCD
4	RS	H/L	H : Data L : Instruction Code
5	R/W	H/L	H : Read L : Write
6	E	H,H➔L	Enable Signal
7	DB0	H/L	Data Bus Line
8	DB1	H/L	
9	DB2	H/L	
10	DB3	H/L	
11	DB4	H/L	
12	DB5	H/L	
13	DB6	H/L	
14	DB7	H/L	
15	/CS1	L	Chip Selection for IC1
16	/RST	L	Reset Signal, Active Low
17	/CS2	L	Chip Selection for IC2
18	/CS3	L	Chip Selection for IC3
19	V_{OUT}	--	Negative Voltage Output(-10V)
20	LED+	--	LED B/L Power Supply (+5V)

LED BACKLIGHT SPECIFICATIONS (Ta=25˚C)

Item	Symbol	Typ.	Max.	Unit
Forward Voltage	V_f	3.4	3.8	V
Forward Current	I_f	40	--	mA
LED Color	High White			