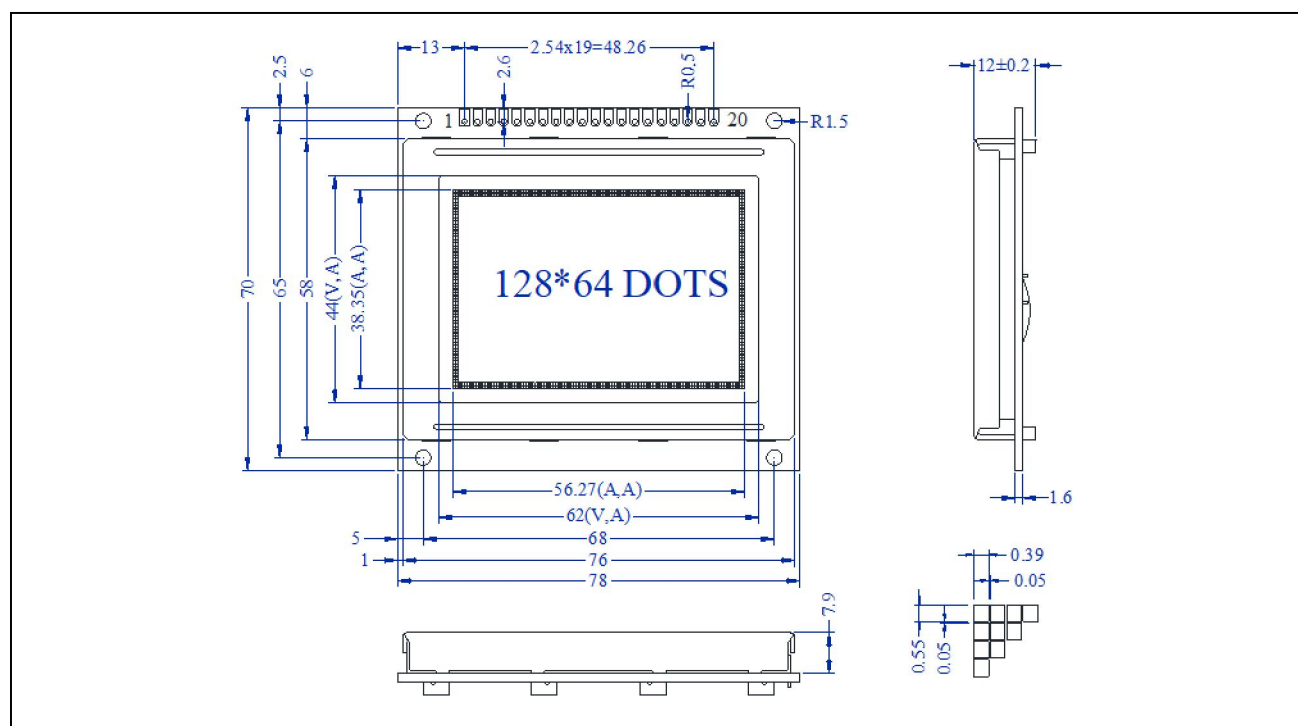


HXG128640J-V1

128 x 64 dots + Yellow/Green LED backlight, 4/8-bit parallel, SPI



ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V _{DD} -V _{SS}	-0.3	5.0	V
Input Voltage	V _I	-0.3	V _{DD} + 0.3	V
Operating Temp.	T _{op}	-20	70	°C
Storage Temp.	T _{stg}	-30	80	°C

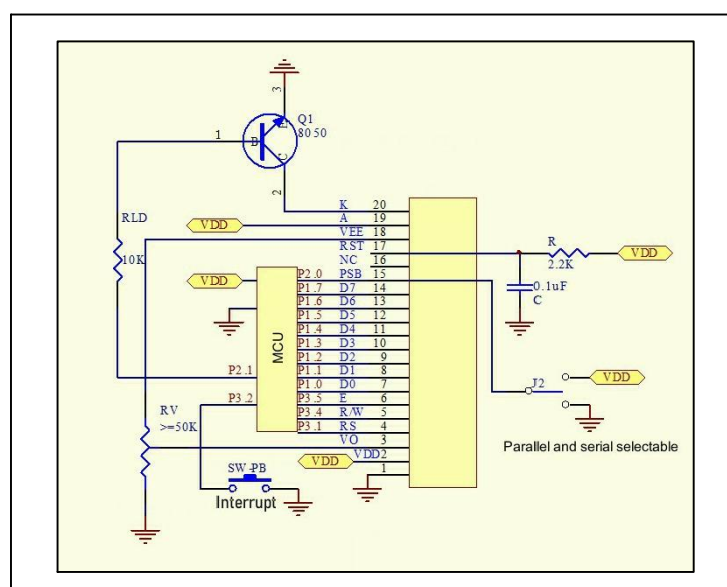
MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	78.0 x 70.0 x 12.0	mm
Viewing Area (W x H)	62.0 x 44.0	mm
Dot Pitch (W x H)	0.44 x 0.60	mm
Dot Size (W x H)	0.39 x 0.55	mm
Weight	Approx. 48	g

ELECTRICAL CHARACTERISTICS (V_{DD}=5V±0.5V)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	—	2.0	—	V _{DD}	V
Input Low Voltage	V _{IL}	—	0	—	0.8	V
LCD Driving Voltage	V _{DD} -V _O	T _a =25°C	4.7	4.8	4.9	V

BLOCK DIAGRAM



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	VSS	0V	GND
2	VDD	5V	Power supply for logic(3.3V optional)
3	V0	—	LCD driving voltage
4	RS(CS)	H/L	Parallel mode 0:Address counter when MCU reading Command register when MCU writing 1:Display Data Serial mode CS: Chip selection, active high
5	RW(SID)	H/L	Parallel mode 0:Write 1:Read Serial mode Data input
6	E(SCLK)	H/L	Parallel: Enable signal, active high Serial: Clock
7~14	D0-D7	H/L	Data bus D0-D3 no connect in 4 bit mode
15	P8B	H/L	Parallel or serial mode selection
16	NC	—	No connection
17	RST	H/L	Reset(Active low)
18	VOUT	—	Voltage booster(Active when 3.3V mode)
19	LEDA	5V	LED backlight anode(3.3V optional)
20	LEDK	0V	LED backlight cathode

LED BACKLIGHT SPECIFICATIONS (T_a=25°C)

Item	Symbol	Min.	Typ.	Max.	Unit
Forward Voltage	V _f	4.7	5.0	5.3	V
Forward Current	I _f	8	15	20	mA
LED Color		Y/G			