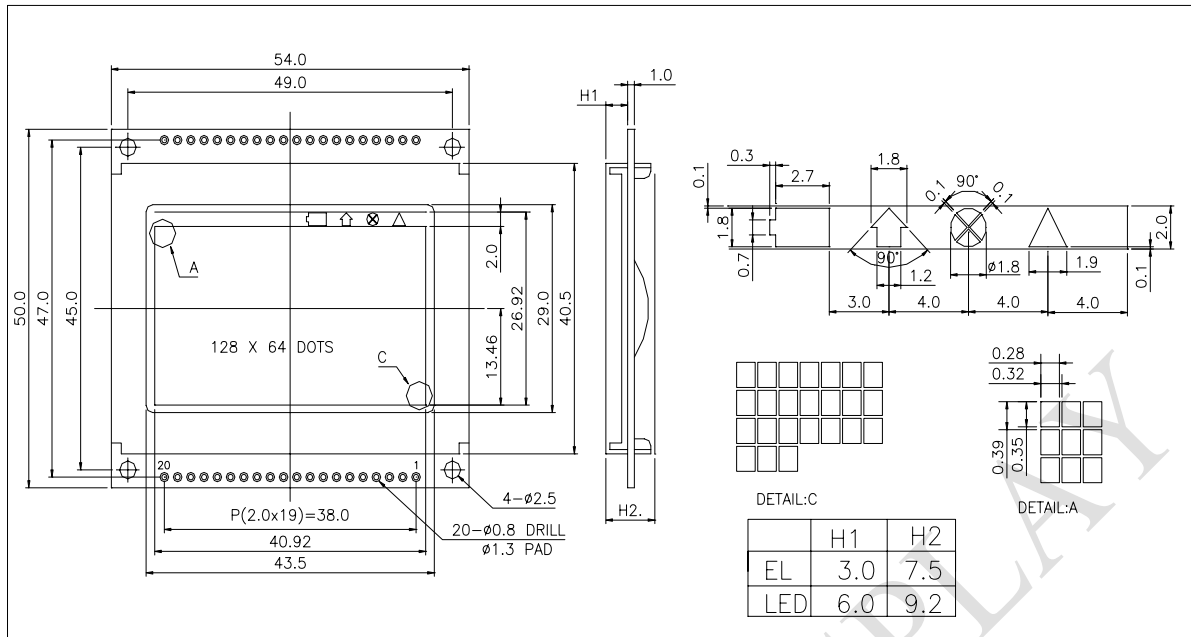




PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V _{SS}	0V	GND
2	V _{DD}	+5V	Power supply for logic
3	V _O	-	Operating voltage for LCD
4	RS	H/L	“H” Data, “L” Instruction code
5	R/W	H/L	“H” Read, “L” Write
6	E	H/L	Enable signal
7	DB0	H/L	Data bus line
14	DB7		
15	CS1	H	Chip selection for IC1
16	CS2	H	Chip selection for IC2
17	/REST	L	Reset signal ,active “L”
18	V _{OUT}	-	Out voltage for LCD driving
19	ELON	+5V	Power supply for EL/LED backlight
20	NC	-	No connection

NOTES:

1. Built-in KS0107/0108 controller
2. +5V/+3.3V power supply optional
3. Yellow green/blue mode optional

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	54.0X50.0X9.2	mm
Viewing Area (W x H)	43.5X29.0	mm
Dot Pitch (W x H)	0.32X0.39	mm
Dot Size (W x H)	0.28X0.35	mm

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	17.5	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

ELECTRICAL CHARACTERISTICS (V_{DD}=5.0V, T_a=25°C)

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	0.8V _{DD}	-	V _{DD}	V
Input Low Voltage	V _{IL}	0	-	0.8	V
Output High Voltage	V _{OH}	2.4	-	V _{DD}	V
Output Low Voltage	V _{OL}	0	-	0.4	V
Supply Current	I _{DD}	-	6	8	mA
LCD Driving Voltage	V _{DD} -V ₀	-	10.5	-	V

BACKLIGHT SPECIFICATIONS (T_a=25°C)

Item	Forward Voltage	Forward Current
EL Green	AC:110V	4mA
LED White	3.1V	45mA