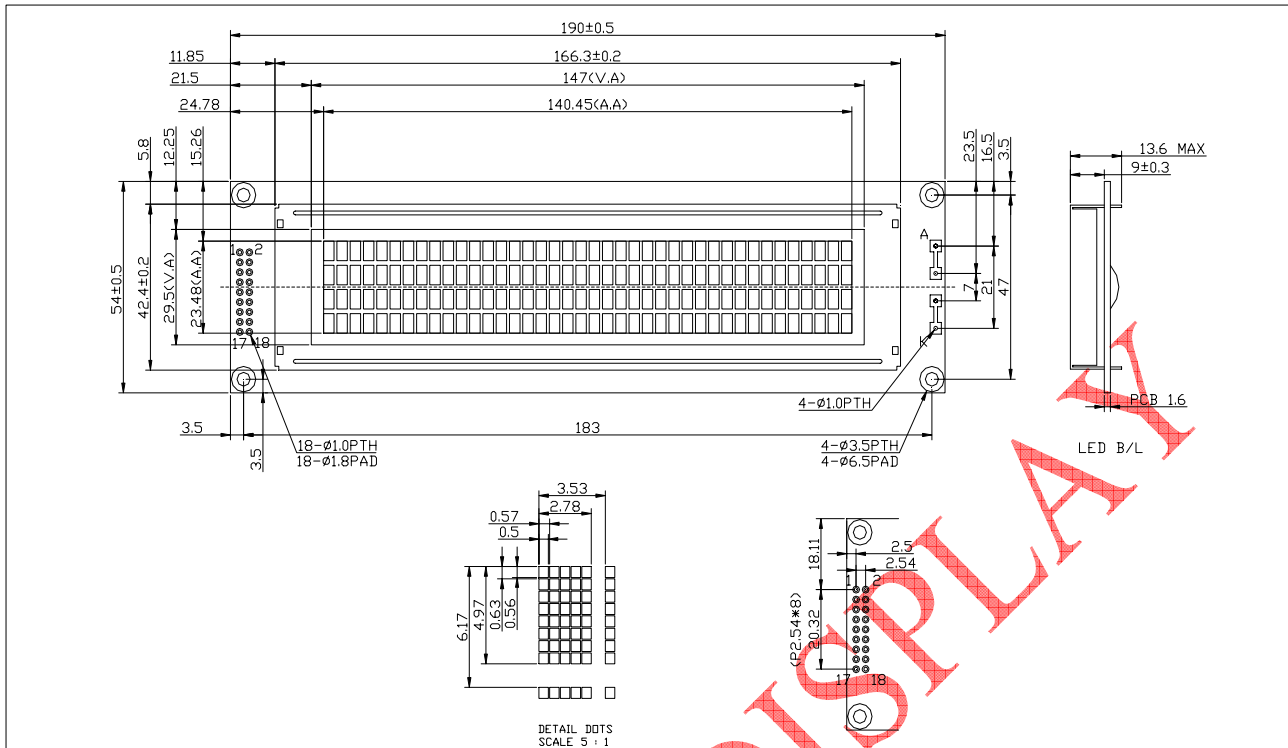




PIN CONNECTIONS

Pin	Symbol	Level	Function
1	DB7	H/L	Data bus
8	DB0		
9	E1	H→L	Enable signal IC1
10	R/W	H/L	“H”Read, “L”Write
11	RS	H/L	“H” Data “L” Instruction code
12	V _O	-	Operating voltage for LCD
13	V _{SS}	0V	GND
14	V _{DD}	+5V	Power supply for logic
15	E2	H→L	Enable signal IC2
16	NC/V _{EE}	-	No connection/ Negative voltage output
17	LEDA	+5V	Power supply for LED Backlight
18	LEDK	0V	

NOTES:

- 1.Built-in controller(KS0066 or Equivalent)
- 2.+5V/+3.3V power supply optional

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	190.0X54.0X13.6	mm
Viewing Area (W x H)	147.0 X29.5	mm
Character Size (W x H)	2.78X4.97	mm
Dot Size (W x H)	0.50X0.56	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	7.0	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

ELECTRICAL CHARACTERISTICS (V_{DD}=5V, Ta=25°C)

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	2.2	-	V _{DD}	V
Input Low Voltage	V _{IL}	-0.3	-	0.6	V
Output High Voltage	V _{OH}	2.4	-	V _{DD}	V
Output Low Voltage	V _{OL}	0	-	0.4	V
Supply Current	I _{DD}	-	-	-	mA
LCD Driving Voltage	V _{DD} - V _O	-	4.6	-	V

LED BACKLIGHT SPECIFICATION (Ta=25°C)

Item	Forward Voltage	Forward Current
WHITE	3.5V	64mA
YELLOW-GREEN Edge	3.1V	60mA