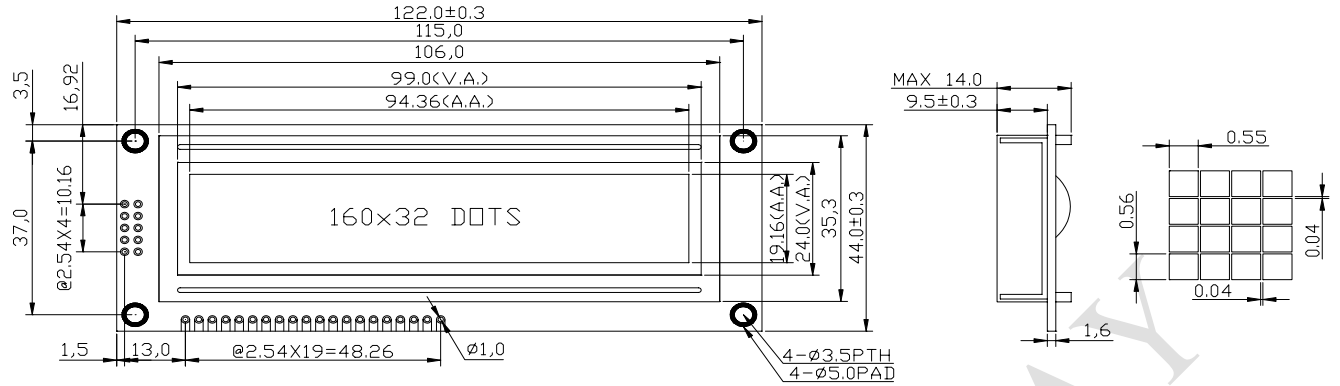
HG160322 1/32DUTY 1/6BIAS



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V_{SS}	0V	GND
2	V_{DD}	+5V	Power supply for logic
3	V_O	-	No connection
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 | 14	DB0 | DB7	H/L	Data bus line
15	PSB	H/L	"H" Parallel mode "L" Serial mode
16	/REST	L	Reset signal ,active "L"
17	V_{OUT}	-	Positive voltage output
18	LEDA	+5V	Power supply for LED backlight
19	LEDK	0V	
20	NC	-	No connection

NOTES:

1. Built-in ST7920 (With Chinese Char ROM) controller
2. Yellow green/blue mode optional
3. 5V/3.3V power supply optional
4. Parallel mode/serial mode optional

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size（W x H x T）	122.0X44.0X14.0	mm
Viewing Area (W x H)	99.0X24.0	mm
Dot Pitch (W x H)	0.59X0.60	mm
Dot Size (W x H)	0.55X0.56	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	V_{DD}-V_{SS}	-0.3	5.5	V
Supply Voltage (LCD)	V_O-V_{SS}	-0.3	7	V
Input Voltage	V_I	-0.3	V_{DD}+0.3	V
Operating Temp.	T_{OPR}	-20	70	℃
Storage Temp.	T_{STG}	-30	80	℃

ELECTRICAL CHARACTERISTICS (V_{DD}=5.0V, Ta=25℃)

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V_{IH}	0.7V_{DD}	-	V_{DD}	V
Input Low Voltage	V_{IL}	-0.3	-	0.6	V
Output High Voltage	V_{OH}	0.8V_{DD}	-	V_{DD}	V
Output Low Voltage	V_{OL}	0	-	0.4	V
Supply Current	I_{DD}	-	3	5	mA
LCD Driving Voltage	V_O-V_{SS}	-	6.5	-	V

LED BACKLIGHT SPECIFICATIONS (Ta=25℃)

Item	Forward Voltage	Forward Current
YELLOW-GREEN	4.1V	200mA

TSINGTEK DISPLAY