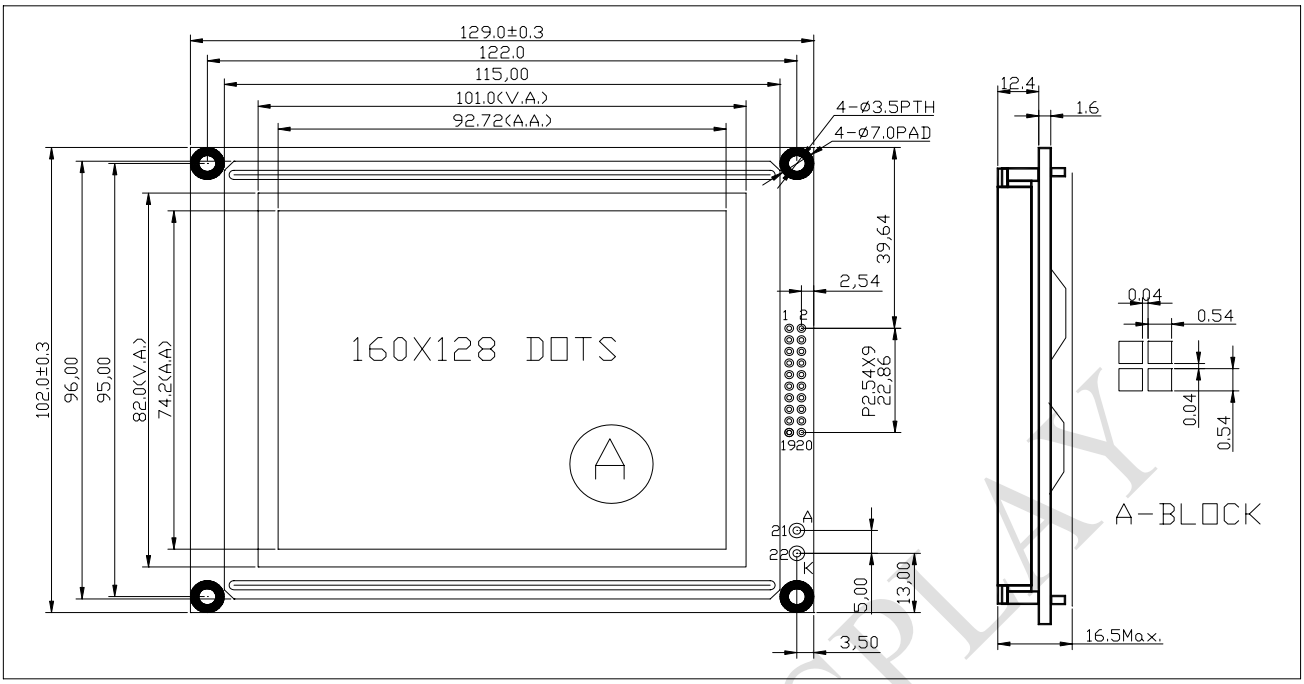
HG1601282 1/128DUTY 1/12BIAS



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	FG	-	Frame ground
2	V_{SS}	0V	GND
3	V_{DD}	+5V	Power supply for logic
4	V_O	-	Operating voltage for LCD
5	V_{OUT}	-	Negative voltage output
6	/WR	L	Write signal
7	/RD	L	Read signal
8	/CE	L	Chip enable signal
9	C/D	H/L	"L" Data, "H" Instruction code
10	/HALT	H/L	"H": Normal , "L": Stop osc clock
11	/REST	L	Reset signal ,active "L"
12 | 19	DB0 | DB7	H/L	Data bus line
20	NC	-	No connection
21	LEDA	+5V	Power supply for LED backlight
22	LEDK	0V	

NOTES:

1. Built-in T6963C controller
2. Temperature compensation optional
3. Compatible with. VARITRONIX MGLS160128

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size(W x H x T)	129.0X102.0X16.5	mm
Viewing Area (W x H)	101.0X82.0	mm
Dot Pitch (W x H)	0.58X0.58	mm
Dot Size (W x H)	0.54X0.54	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	℃
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}	V_{DD}-2.2	-	V_{DD}	V
Input Low Voltage	V_{IL}	0	-	0.8	V
Output High Voltage	V_{OH}	V_{DD}-0.3	-	V_{DD}	V
Output Low Voltage	V_{OL}	0	-	0.3	V
Supply Current	I_{DD}	-	15	18	mA
LCD Driving Voltage	V_{DD}-V_0	-	15.5	-	V

LED BACKLIGHT SPECIFICATIONS (Ta=25℃)

Item	Forward Voltage	Forward Current
YELLOW-GREEN	4.1V	770mA
White	3.1V	150mA

TSINGTEK DISPLAY