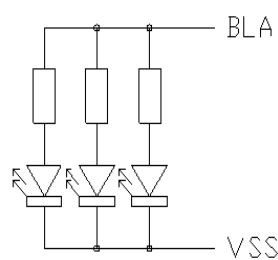
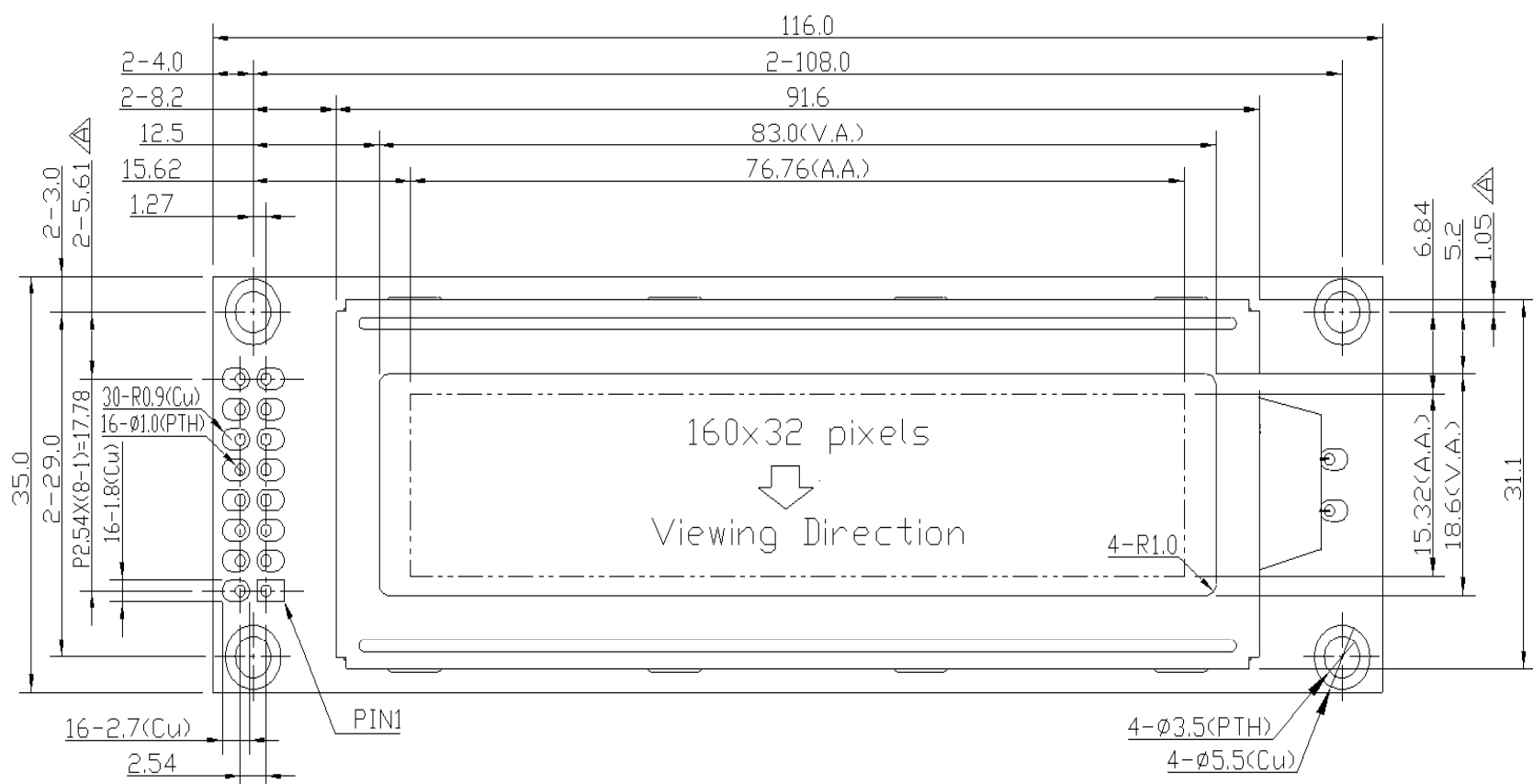
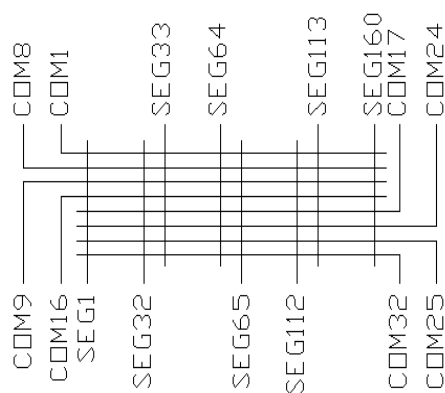


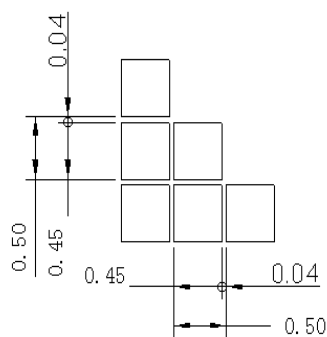
GDM16032B02-GW 160*32dots With Gray low voltage built in chinese library



Backlight Circuit
Scale=free



Wiring Details
Scale=free



Pixels Details
Scale=20/1

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V _{DD} -V _{SS}	-0.3	5.25	V
Supply Voltage(LCD)	V _{DD} -V _{SS}	-0.3	7	V
Input Voltage	V _I	-0.3	V _{DD} + 0.3	V
Operating Temp.	T _{opr}	-10	60	°C
Storage Temp.	T _{stg}	-20	70	°C

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	116.0 x35 .0 x 11.7	mm
Viewing Area (W x H)	83.0 x 18.6	mm
Dot Pitch (W x H)	0.50 x 0.50	mm
Dot Size (W x H)	0.45 x 0.45	mm
Weight	Approx. 55	g

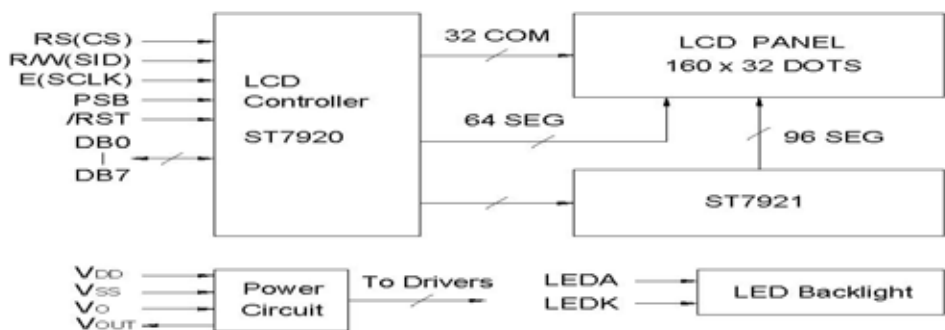
ELECTRICAL CHARACTERISTICS ($V = 5V \pm 0.25V$)

Item	Symbol	Condition Test	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}		2.7		5.5	V
Input Low Voltage	V _{IL}		-0.3		0.6	V
Output High Voltage	V _{OH}	= -0.1mA I _{OH}	2.4		V _{DD}	V
Output Low Voltage	V _{OL}	= 0.1mA I _{OL}	0		0.4	V
Supply Current	DDI	V _{DD} = 5.0V		3	5	mA
LCD Driving Voltage	-V _{VDD O}	Ta=25°C		4.8		V

INTERFACE DEFINITION

Pin	Symbol	Level	Function		
1	Vss	0V	Power supply for ground		
2	VDD	+3.3V	Power supply for logic		
3	NC		NC		
4	CS	H	Chip Select H: Chip enable, L: Chip disable		
5	SID		Serial data input		
6	SCLK		Serial clock		
7	NC		NC		
8	NC				
9	NC				
10	NC				
11	NC				
12	NC				
13	NC				
14	NC				
15	LEDA	L	Power supply for LED backlight		
16	NC				

BLOCK DIAGRAM



LED BACKLIGHT SPECIFICATIONS(TA=25)

item	Symbol	Typ.	Max.	Unit
Forward Voltage	Vf	3.1	3.3	V
Forward Current	If	60	--	mA
LED Color	White			