

Phoenix Display International, Inc.

PRODUCT PREVIEW

120 x 96 Monochrome

TN/STN

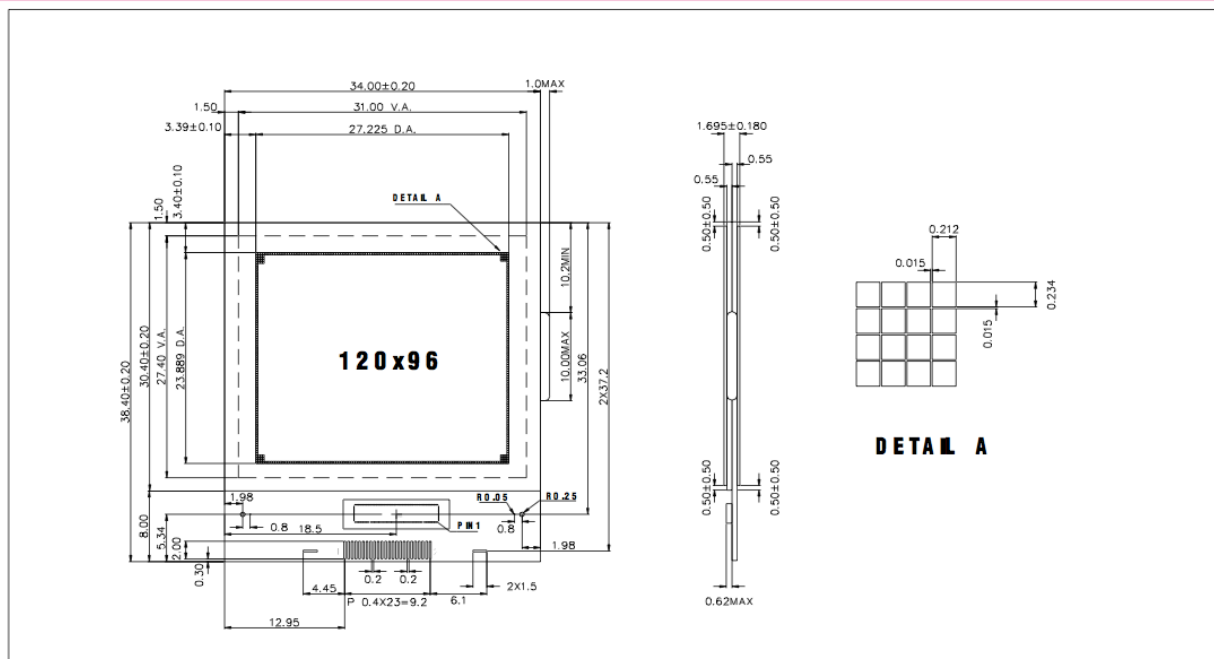
Graphics
Liquid Crystal Display

SPECIFICATIONS

MODULE

Part Number	G-1209601G-VA
Format	120 Columns by 96 Rows
Controller	S6B0719
Overall Dimensions	34.0mm x 38.4mm x 1.7mm
Active Area	27.2mm x 23.9mm
Pixel Pitch	237um x 249um
Pixel Size	212um x 234um
Backlight System	None
Driver Attach	Chip on Glass (COG)
Glass Type	STN, FSTN
Display Type	R,TF,TM
Duty	1/105

1.0 DIMENSIONAL DRAWING



Phoenix Display International reserves the right to change this document without prior notice and disclaims all warranties. It is the recipient's duty to confirm with PDI before proceeding with a design. This document is PDI confidential and should not be reproduced without PDI approval.

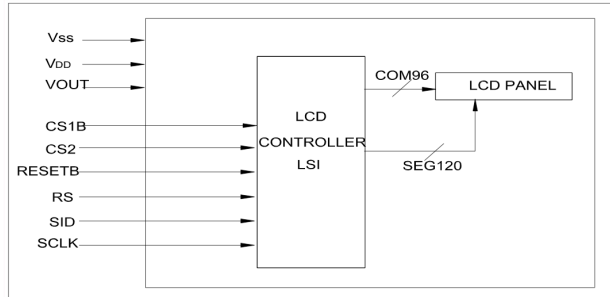


Phoenix Display International, Inc.
www.phoenixdisplay.com sales@phoenixdisplay.com
 Tel: (630) 359-5700 or (480) 775-6315

PRODUCT PREVIEW

120 x 96 Monochrome

2.0 BLOCK DIAGRAM



3.0 ELECTRICAL CHARACTERISTICS Ta=25 °C VDD=3.0V±0.25V

Item	Symbol	Test Condition	Standard Value			Unit
			Min.	Typ.	Max.	
Power Supply Voltage	V _{DD-VSS}	25°C	-	3.0	-	V
LCD Operation Voltage	V _{OP}		-	11.5	18	V
LCM Current Consumption	I _{DD}		-	1	2	mA
Backlight Forward Voltage(EL)	V _F		-	-	-	Vrms

4.0 ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Test Condition	Standard Value			Unit
			Min.	Max.	Unit	
Supply Voltage (Logic)	V _{DD-VSS}	25°C	-0.3	7		V
Supply Voltage (LCD)	V _{DD-V_O}		-0.3	20		V
Input Voltage	V _{IN}		-0.3	V _{DD+0.3}		V
Operating Temp.	T _{OPR}	-	-20	70		°C
Storage Temp.	T _{STG}	-	-30	80		°C

5.0 PIN ASSIGNMENT

PIN No.	Symbol	Description
1	+VLED	Nc
2	V0	Connect 1.0 uF VSS
3	V1	Connect 1.0 uF VSS
4	V2	Connect 1.0 uF VSS
5	V3	Connect 1.0 uF VSS
6	V4	Connect 1.0 uF VSS
7	NC	Nc
8	C4+	Connect 1.0 uF C2-
9	C2-	Connect 1.0 uF C2+
10	C2+	Nc
11	C1+	Connect 1.0 uF C1-
12	C1-	Connect 1.0 uF C3+
13	C3+	Nc
14	C5+	Nc
15	VOUT	Connect 1.0 uF VSS
16	VSS	GND
17	VDD	Recommend +3.0V
18	SID	Connect to MPU
19	SCLK	Connect to MPU
20	RS	Connect to MPU
21	RESETB	Connect to MPU
22	CS2	Connect to MPU
23	CS1B	Connect to MPU
24	-VLED	Nc

Remark
 1. LCD option: STN, FSTN .
 2. Customized module.

