

**Phoenix Display International, Inc.**

# PRODUCT PREVIEW

## 128 x 64 Monochrome

**TN/STN**

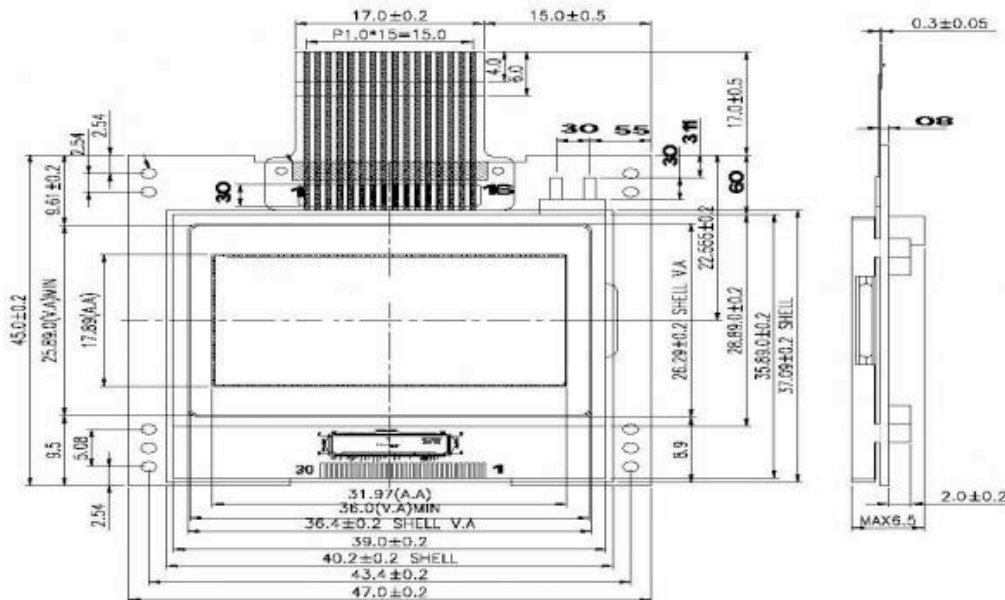
Graphics  
Liquid Crystal Display

### SPECIFICATIONS

**MODULE**

Part Number	G-1286448G-VA
Format	128 Columns by 64 Rows
Controller	S6B1713A11-B0CZ
Overall Dimensions	39.0mm x 42.0mm x 2.8mm
Active Area	32.0mm x 17.9mm
Pixel Pitch	250um x 280um
Pixel Size	220um x 250um
Backlight System	EL
Driver Attach	Chip on Glass (COG)
Glass Type	STN, FSTN
Display Type	R,TF,TM
Duty	1/64

**1.0 DIMENSIONAL DRAWING - FRONT**



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### 3.0 ELECTRICAL CHARACTERISTICS Ta=25 °C V<sub>DD</sub>=3.0V±0.25V

Item	Symbol	Test Condition	Standard Value			
			Min.	Typ.	Max.	Unit
Power Supply Voltage	V <sub>DD</sub> -V <sub>SS</sub>	25°C	2.7	3.0	5.5	V
LCD Operation Voltage	V <sub>OP</sub>			9	13	V
LCM Current Consumption	I <sub>DD</sub>			2	3	mA
Backlight Forward Voltage	V <sub>F</sub>			100.0		V
Backlight Current Consumption	I <sub>F</sub>			0.15		mA/cm <sup>2</sup>

### 4.0 ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Test Condition	Standard Value		
			Min.	Max.	Unit
Supply Voltage (Logic)	V <sub>DD</sub> -V <sub>SS</sub>	25°C	-0.3	7	V
Supply Voltage (LCD)	V <sub>DD</sub> -V <sub>O</sub>		-0.3	17	V
Input Voltage	V <sub>IN</sub>		-0.3	V <sub>DD</sub> +0.3	V
Operating Temp.	T <sub>OPR</sub>		-20	70	°C
Storage Temp.	T <sub>STG</sub>		-30	80	°C

### 5.0 PIN ASSIGNMENT

PIN No.	Symbol	Description
1	/CS	Chip select input pins
2	/RES	Reset input pin
3	A0	Register select input pin
4	R/W	Read / Write execution control pin
5	E	Read / Write execution control pin
6~13	D0~D7	Data Bus
14	V <sub>SS</sub>	Ground
15	V <sub>DD</sub>	Power supply
16	EL-E	EL ENABLE

#### Remark

1. LCD option: STN, FSTN .
2. Customized module.
3. Backlight option: LED,EL backlight feature, other specs not available on catalog is under request.

