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Custom Display

Production Custom designs Installation

Mechanical design



DISPALY MODULE SPECIFICATION

Customer: _____

Module No.: ET023F2HSLS01-G-HDMI

Date: 2026-02-24

Version: 1.1

For Customer's Acceptance:

Approved by	Comment

Approved by	Checked by	Prepared by
Haitao Zhou	Chenchen Wang	Hongwei Li



Record of Revision

Rev.	Date	Description	Editor
1.0	2026-01-14	First release	Hongwei.Li
1.1	2026-02-24	Add through-hole pad pin definition	Hongwei.Li



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1. General Specifications

1.1 Product Overview:

ET023F2HSLS01-G-HDMI is a 0.23 inch Monocular silicon-based OLED display driver product developed by YOURITECH, This product only uses a Micro HDMI connector as the video signal and power input interface, without the need for additional power supply, And it supports adjusting screen brightness by short circuiting the through-hole pads on the driver board. Can be applied to the demo display of YOURITECH products, product feature evaluation, and secondary development of products based on this driver board.



1.2 Features:

No.	Item	Specification	Unit
1	Panel Size	0.23	Inch
2	Resolution	640 (H) × 400 (V)	--
3	Active Area	5.06 (H) × 3.29 (V)	mm
4	pixel dimensions	7.8 × 7.8	um
5	Outline Dimension(LCD)	54.54(W) × 6.44 (H)	mm
6	Outline Dimension(PCB)	50.00(W) × 12.50(H)	mm
7	Number of Colors	16.7M	--
8	Display Mode	Normally Black	--
9	View Direction	/	--
10	Display Format	/	--
11	Surface Treatment	/	--
12	Contrast Ratio	>10000	--
13	Luminance (cd/m^2)	3000(Typ.)	cd/m2
14	Video Input Interface	Micro HDMI (ComplianceHDMI V1.4)	
15	Touch panel	/	
16	Backlight	/	
17	Operation Temperature	-40 to +65	℃
18	Storage Temperature	-55 to +90	℃
19	Weight	(TBD)	g



2. Pin Descriptions

2.1 HDMI Pin assignment

Connector model: HDMI-101S(HDMI Type D).

PIN	Symbol	I/O	Function	Note
1	HPD	O	Hot Plug Detect	
2	N.C.	-	N.C.	
3	TMDS 2+	I	TMDS Data2+	
4	TMDS Data2 Shield	P	GND	
5	TMDS 2-	I	TMDS Data2-	
6	TMDS 1+	I	TMDS Data1+	
7	TMDS Data1 Shield	P	GND	
8	TMDS 1-	I	TMDS Data1-	
9	TMDS 0+	I	TMDS Data0+	
10	TMDS Data0 Shield	P	GND	
11	TMDS 0-	I	TMDS Data0-	
12	TMDS CLK+	I	TMDS Clock+	
13	TMDS Clock Shield	P	GND	
14	TMDS CLK-	I	TMDS Clock-	
15	CEC	I	CEC	
16	DDC/CEC Ground	P	GND	
17	DDC_SCL	I	IIC SCL to EDID ROM	
18	DDC_SDA	I/O	IIC SDA to EDID ROM	
19	HD_5V	P	+5V Power	

I---Input, O---Output, P--- Power

2.2 Through-hole pads Pin assignment

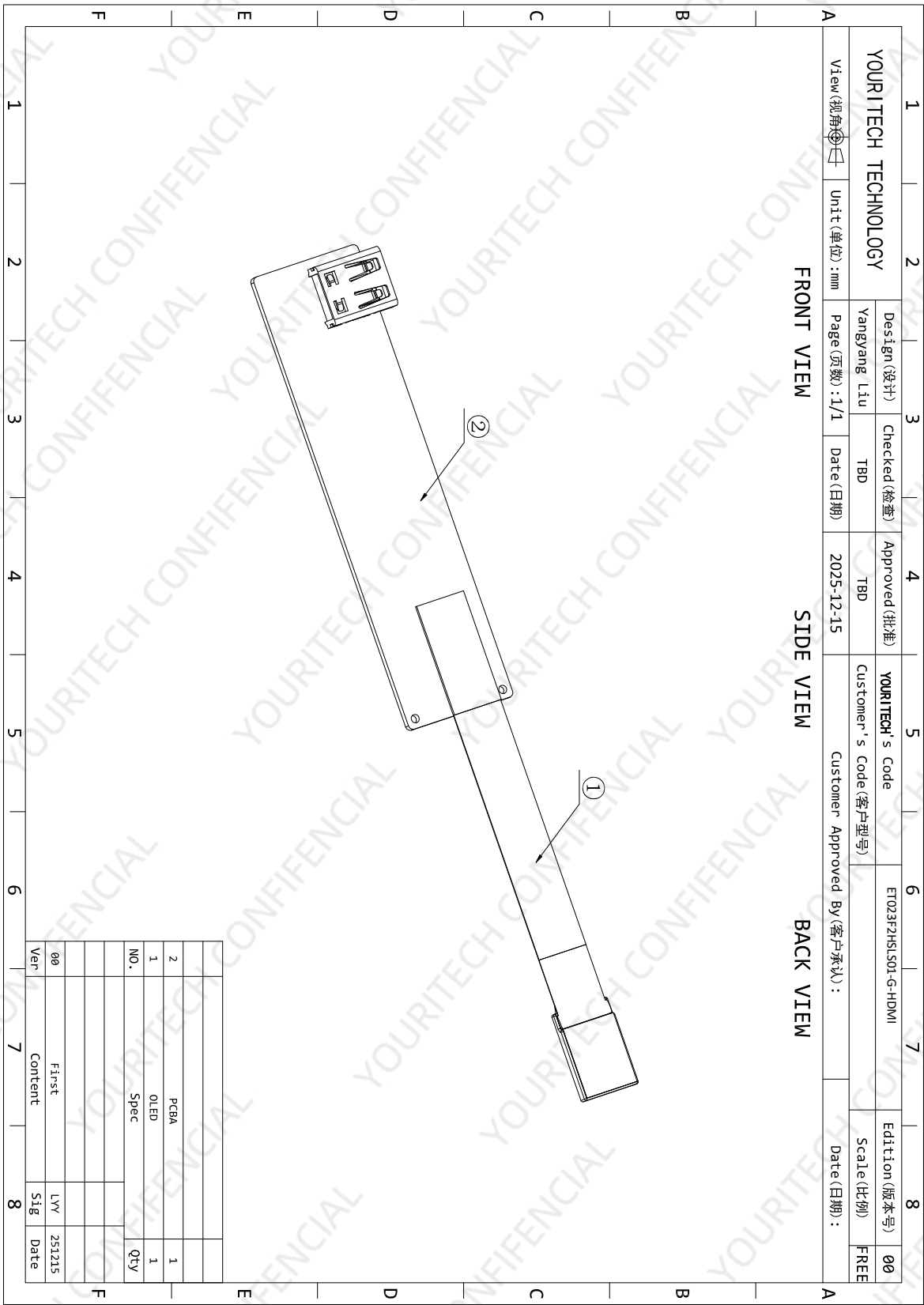
Matching connector: 2.0mm pitch pin header.

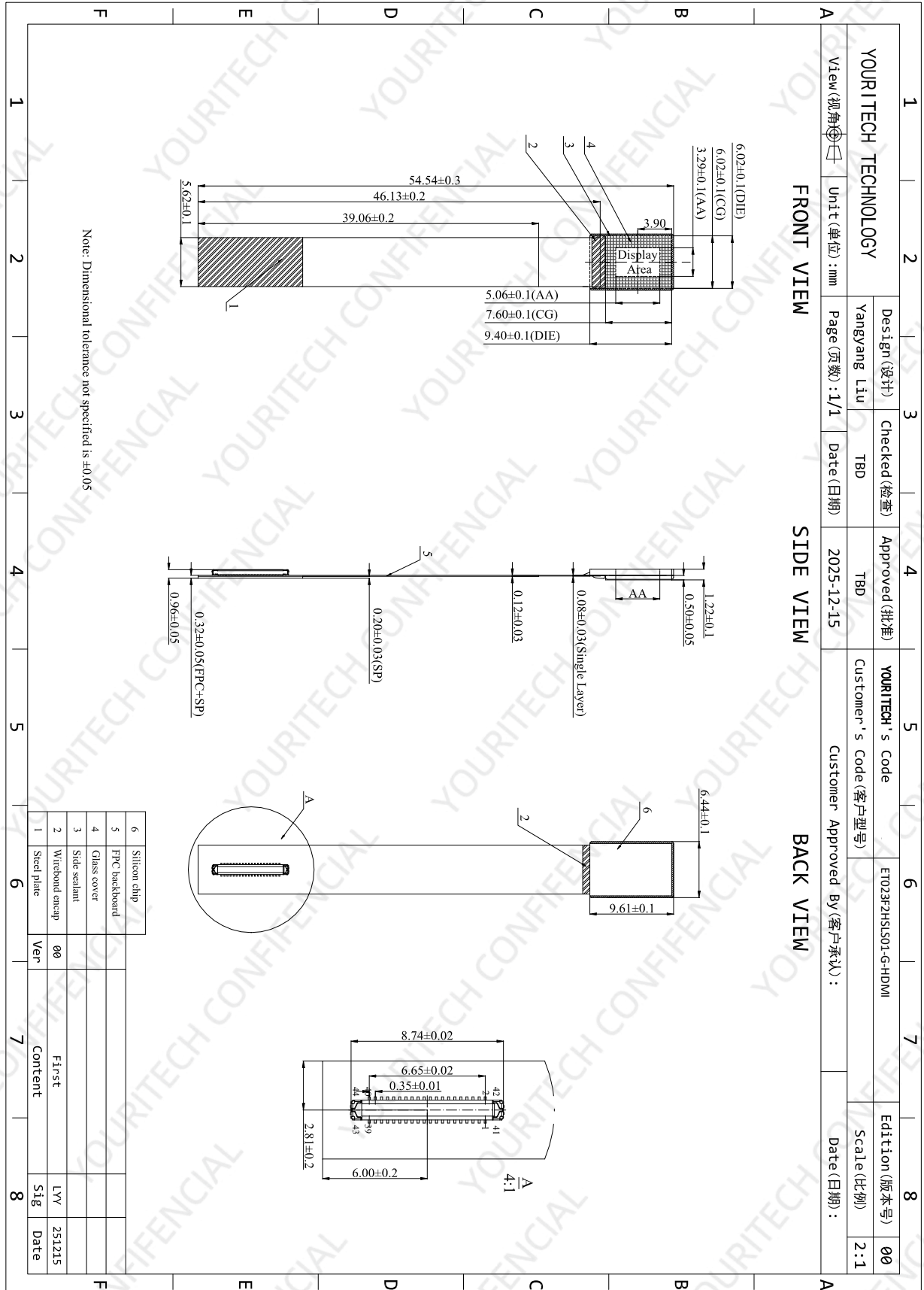
PIN	Symbol	I/O	Function	Note
1	5V (NC)	P	No Connect	
2	GND (NC)	P	No Connect	
3	BRT+	I	Short circuiting with GND can increase brightness	
4	BRT-	I	Short circuiting with GND can reduce brightness	

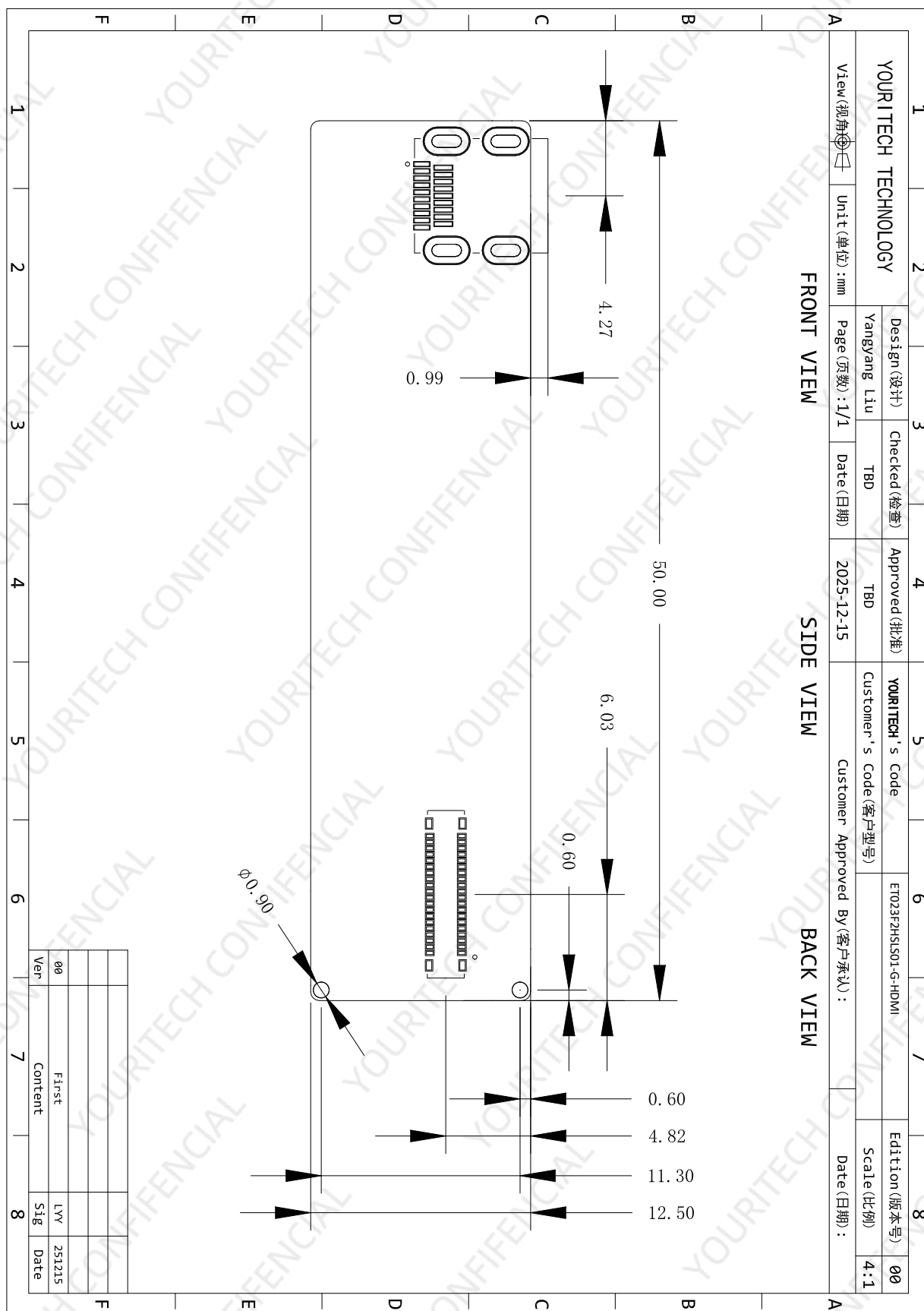
I---Input, O---Output, P--- Power



3. Mechanical Specification







4. Absolute Maximum Ratings

Electrical Absolute Rating

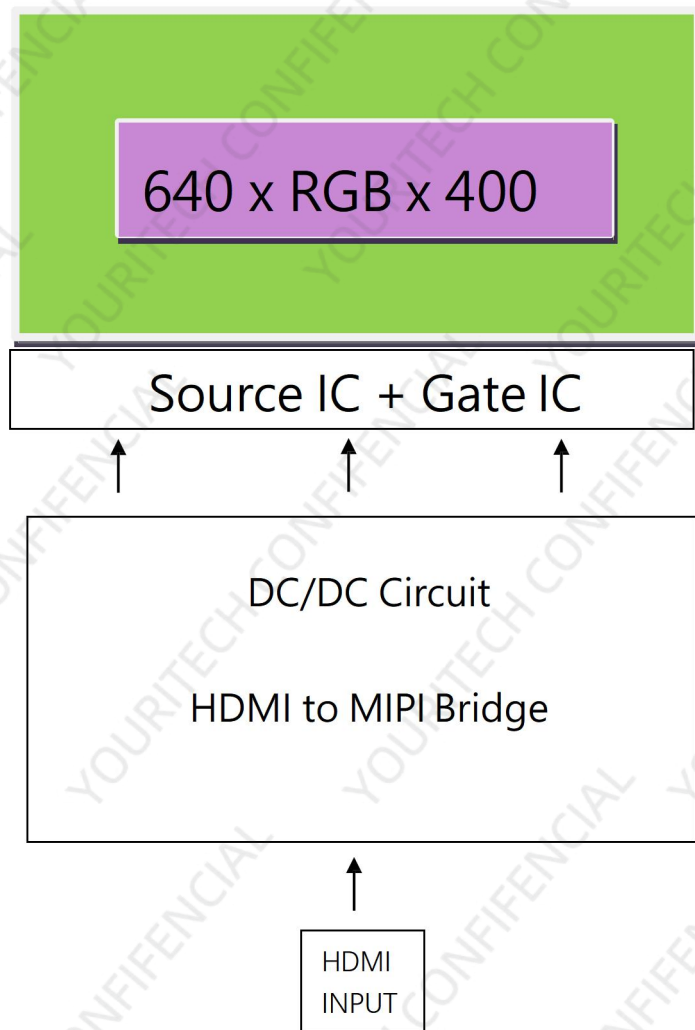
Item	Symbol	Values			Unit	Note
		Min.	Typ	Max.		
Power supply voltage	HD_5V	/	5	/	V	
Input current	-	/	0.157	/	A	
Input Power	-	/	0.785	/	W	

Environment Absolute Rating

Item	Symbol	Values			Unit	Note
		Min.	Typ	Max.		
Operating Temperature	Top	-40.0	-	65.0	°C	
Storage Temperature	Tst	-55.0	-	90.0	°C	



5. Block Diagram



6. Optical Characteristics

Item		Symbol	Condition	Min.	Typ.	Max.
Luminance		L		-	3000	-
Uniformity		U		90%	95%	100%
Contrast Ratio		CR		10000	-	-
NTSC				70%	80%	88%
Chromaticity	White	x	Highest gray level	0.26	0.31	0.36
		y		0.28	0.33	0.38
	Red	x		0.6	0.63	0.66
		y		0.3	0.33	0.36
	Green	x		0.18	0.22	0.26
		y		0.61	0.65	0.69
	Blue	x		0.1	0.14	0.18
		y		0.06	0.08	0.14

