



SPECIFICATION FOR LCD MODULE(模组规格书)

MODULE NO(模组型号): FB040EGP309-A

Product (产品名称): 3.99 寸 模组

CUSTOMER (客户名称): _____

APPROVED BY CUSTOMER 客户签署栏	
Approved by 审核	Remark 备注

APPROVED BY JWS 金威视签署栏		
Prepared by 制作	Checked by 检查	Approved by 审核



REVISION RECORD (修订记录)

REV NO. 版本	CONTENTS 内容	REV DATE 修改日期	REMARKS 注释
Preliminary	First version	2020/12/10	



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1.GENERAL INFORMATION

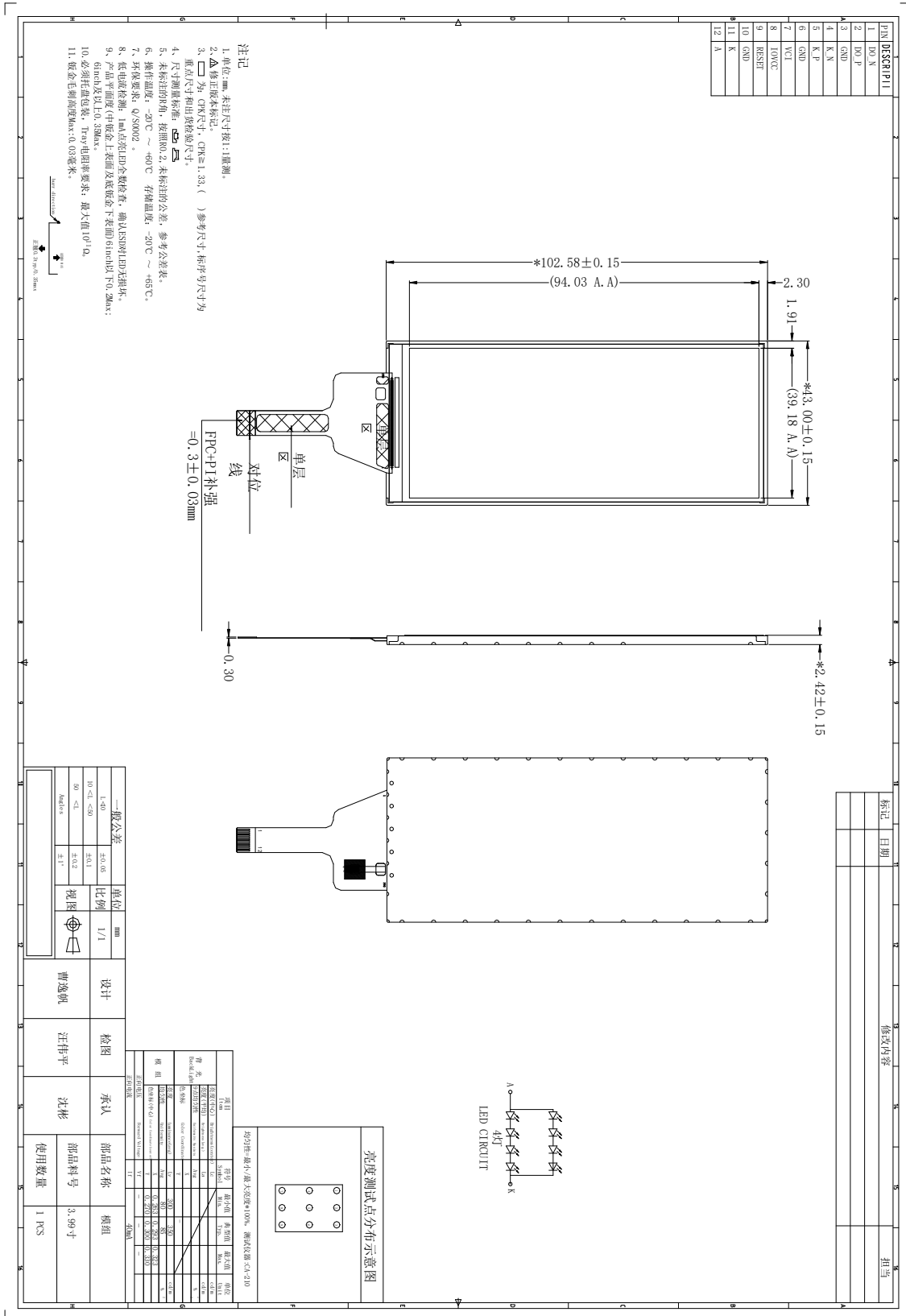
基本描述

Item 项目	Contents 内容	Unit 单位
LCD 类型	TRANSMISSVIE	-
Number of Dots 点阵	400 (H)×960 (V)	Dot
Outline dimensions 外形尺寸	43*102.58*2.42	mm ³
Active area 有效区域	39.18×94.032	mm ²
Pixel pitch 像素	TBD	mm ²
Module size 模组尺寸	3.99	inch
Viewing direction 视角方向	All view	O'clock
Backlight type 背光类型	White	-
D-IC D-IC	9503V	-
Interface type 接口类型	Mipi	-
Input voltage 输入电压	VCC=3.3±0.3	V
All material of MODULE and process measure up to RoHS Europe (符合欧洲 RoHS 标准)		



2.MODULE OUTLINE DRAWING

产品外形图





3. INTERFACE DESCRIPTION

接口定义

PIN	DESCRIPTION
1	DO_N
2	DO_P
3	GND
4	K_N
5	K_P
6	GND
7	VCI
8	IOVCC
9	RESET
10	GND
11	K
12	A



4.BACKLIGHT CHARACTERISTICS

背光电气特性

Item 项目	Symbol 符号	Min 最小值	Typ 中间值	Max 最大值	Unit 单位	Condition 条件
Forward voltage 正向电压	Vf	-	12	-	V（伏）	If=40mA, Ta=25℃
Number of LED LED 灯数	-	8			Piece（颗）	-
Connection mode 连接类型	S/P	4S2P			-	-

5.ABSOLUTE MAXIMUM RATINGS

极限参数

Parameter 参数	Symbol 符号	Min 最小值	Max 最大值	Unit 单位
Input voltage 输入电压	VCC	-3.0	+3.6	V
Operating temperature 操作温度	TOP	-20	70	℃
Storage temperature 存储温度	TST	-20	75	℃
Humidity 湿度	RH	-	90%(60℃)	RH



6.OPTICAL CHAYACTERISTICS

光学特性

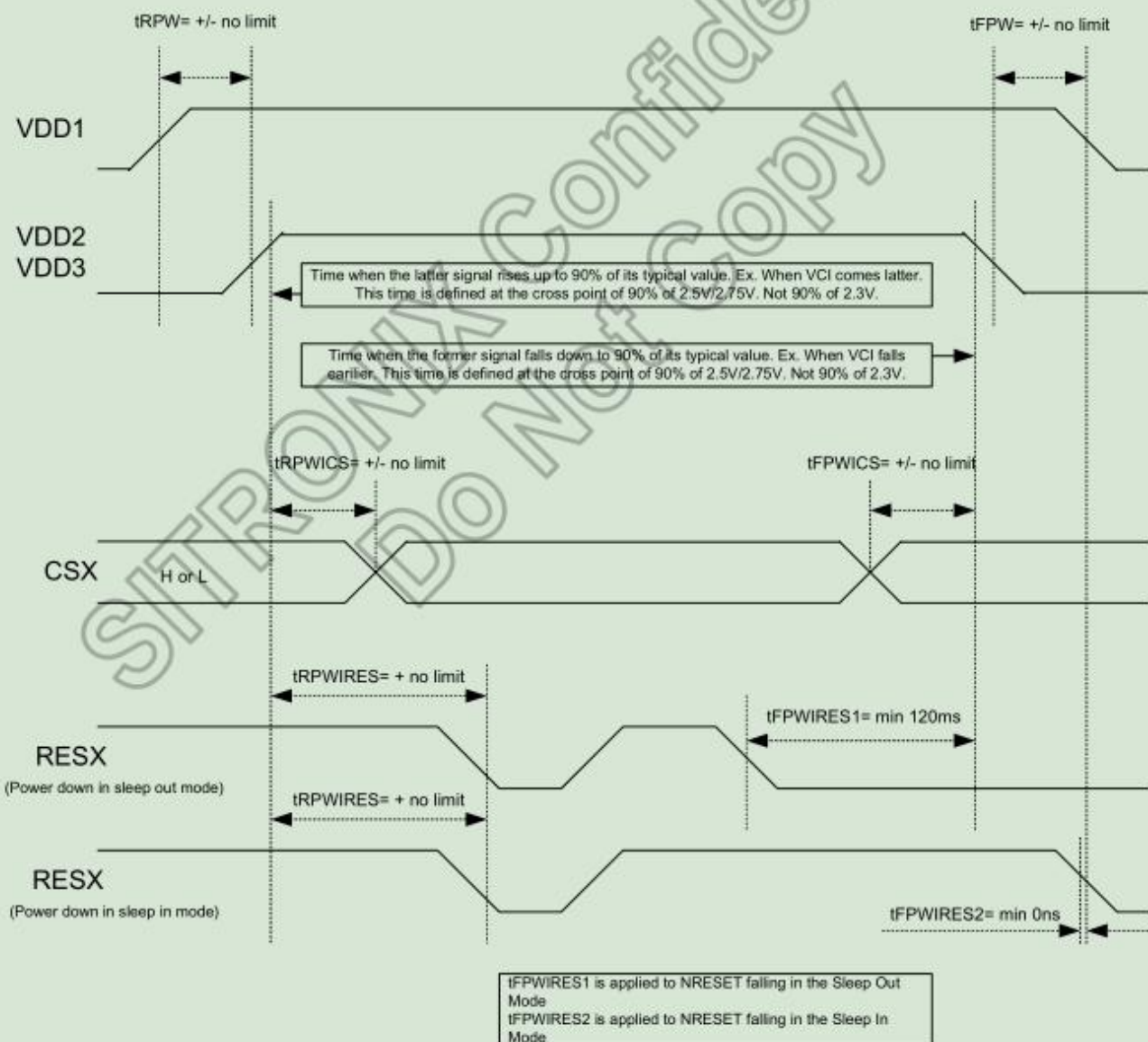
Item 项目	Symbol 符号	Condition 条件	Min 最小值	Typ 典型值	Max 最大值	Unit 单位	Note 备注
Response time 响应时间	Tr+Tf	$\Theta=0^\circ$ $\emptyset=0^\circ$ $T_a=25^\circ\text{C}$	-	30	35	ms	-
Contrast ratio 对比度	CR		-	800	1000	-	-
Color gamut 饱和度	S(%)		-	TBD	-	%	-
Luminance uniformity 均匀度	δWHITE		75	-	-	%	-
LCM Luminance LCM 亮度	Lv			350	-	Cd/ m ²	-
Viewing angle range 视角范围	Θ_{x+}	$CR \geq 10$ $T_a=25^\circ\text{C}$	-	80	-	deg	-
	Θ_{x-}		-	80	-	deg	
	Θ_{y+}		-	80	-	deg	
	Θ_{y-}		-	80	-	deg	
CIE (x,y) Chromaticity 色度坐标	White(x)	$\Theta=0^\circ$ $\emptyset=0^\circ$ $T_a=25^\circ\text{C}$	0.27	0.30	0.33	-	-
	White(y)		0.30	0.33	0.36	-	



7.Reset INPUT TIMING

复位 input 时序

If RESX line is held high or unstable by the host during power on, then a Hardware Reset must be applied after both VDD1, VDD2 and VDD3 have been applied- otherwise correct functionality is not guaranteed. There is no timing restriction upon this hardware reset.



NOTE: This section is only for reference, Details please refer to the LCD/IC specification.

备注：本节仅供参考, 详细信息请参阅 LCD/IC 规格书



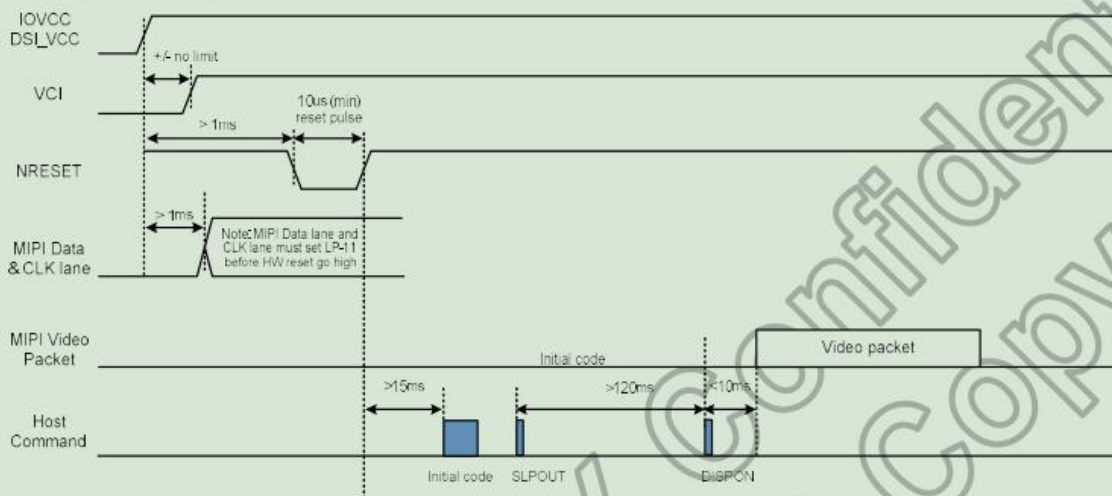
8.Power ON/OFF TIMING

上下电时序

POWER ON SEQUENCE

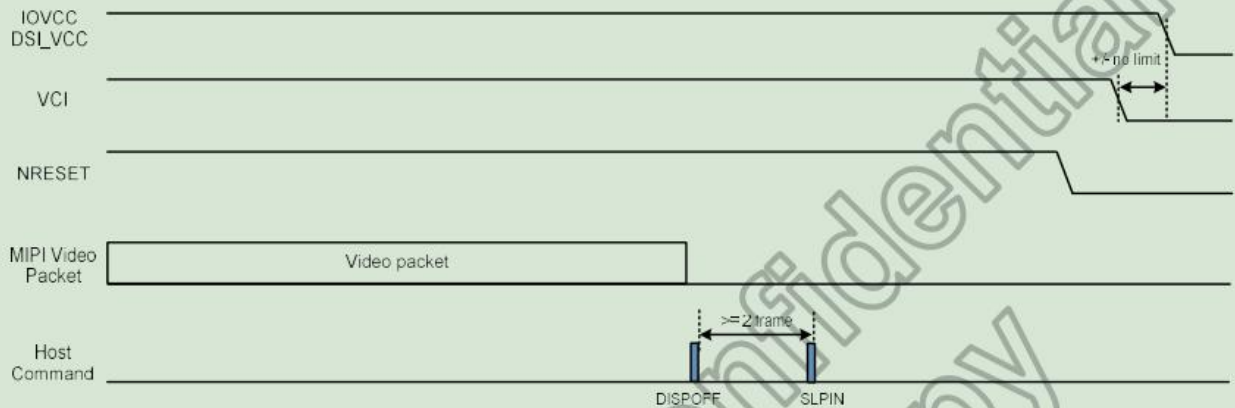
8.4.1 Power on Timing

ESD_WHITE_EN=0



POWER OFF SEQUENCE

8.4.2 Power off Timing



NOTE: This section is only for reference, Details please refer to the IC specification.

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9.INSPECTION SPECIFICATION 品质检验标准
TBD

12. PACKING SPECIFICATION
包装规格
TBD



13. SPECIAL REMAKS

注意事项

1. The above specifications are the binding criteria for JWS Photoelectric Technology's outgoing quality inspection.
以上规格描述为金威视的品质出货标准
2. The customer is kindly requested to inform JWS Photoelectric Technology as soon as possible on any questions, remarks, and disagreements regarding these specifications.
对于规格中的任何问题或存在疑问，客户可随时向金威视公司进行咨询。
3. JWS is not responsible for damage to its products due to neglect of the precautions as described in the previous chapter.
如果不按照规格书要求进行操作而损坏产品的，金威视不承担责任。
4. About the limited warranty unless special agreement between JWS and customer JWS will replace or repair any of its products that are found to be functionally defective when inspected in accordance with JWS acceptance standards for a period of one year from data of shipments.
除金威视跟客户签定协议外，对确认为属于产品本身功能性缺陷的，在金威视可接受范围内可进行退换或维修，金威视保质期为从出货日期起一年内有效。