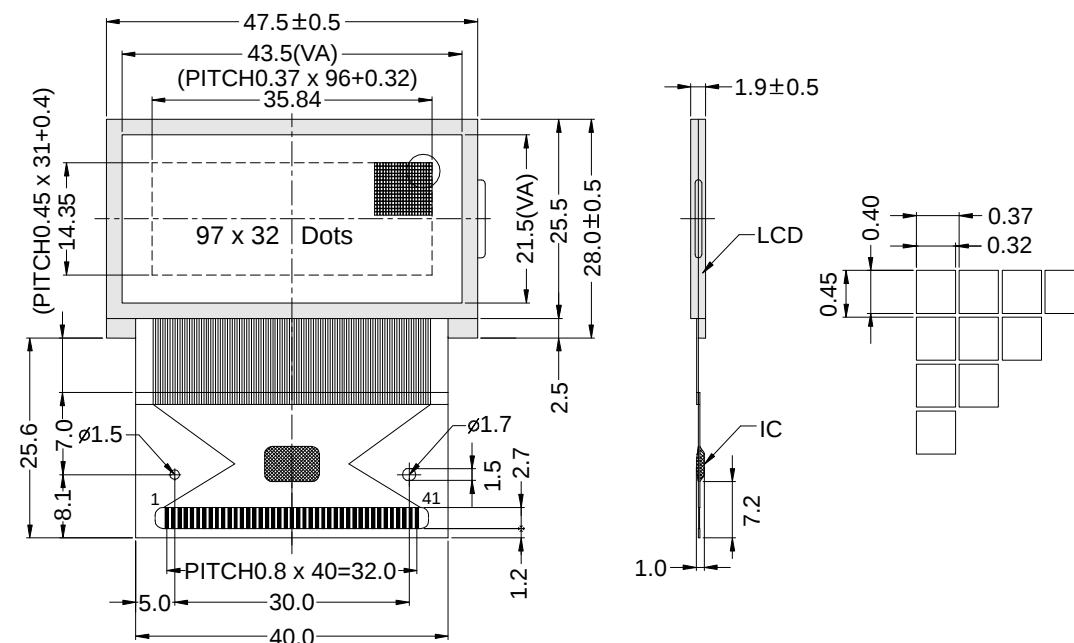


OUTLINE DIMENSION & BLOCK DIAGRAM



The tolerance unless classified $\pm 0.3\text{mm}$

MECHANICAL SPECIFICATION

Overall Size	47.5 x 28.0	Module	H2 / H1
View Area	43.5 x 21.5	W / O B/L	1.9
Dot Size	0.32 x 0.40	EL B/L	- / -
Dot Pitch	0.37 x 0.45	LED B/L	- / -

PIN ASSIGNMENT

Pin no.	Symbol	Function
2	FRS	Static driver output
3	FR	LCD AC signal
4	Dyo	Command driver signal output
5	CL	Display clock I/O
6	DOF	LCD blanking control I/O
7	VS1	Internal power supply
8	MS	Master / slave mode select
9	RST	Reset
10	P/S	Serial / Parallel data select
11-12	CS1, CS2	Chip select
13	C86	Microprocessor interface select
14	Ao	Cortol / display data flag
15/16	WR/RD	Data write / read
17/26	Vdd, Vss	Power supply
18-25	D0-D7	Data bus line
27	Vout	DC voltage output
28-32	CAP1-CAP2	Capacitor connection
34	VR	Voltage adjust
36-40	V1-V5	Bias for LCD driver supply voltage

ABSOLUTE MAXIMUM RATING

Item	Symbol	Condition	Min.	Max.	Units
Supply for logic voltage	Vdd-Vss	25°C	-0.3	7.0	V
LCD driving supply voltage	Vdd-Vee	25°C	-0.3	18.0	V
Input voltage	Vin	25°C	-0.3	Vdd+0.3	V

ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Min.	Typical	Max.	Units
Power supply voltage	Vdd-Vss	25°C	2.7	-	5.5	V
LCD operation voltage	Vop	Top	N	W	N	W
		-20°C	-	6	-	6.8
		0°C	5.3	-	5.6	-
		25°C	5.1	5.8	5.4	6.2
		50°C	4.4	-	4.7	-
		70°C	-	5.6	-	5.9
LCM current consumption (No B/L)	Idd	Vdd=5V	-	0.5	1	mA
Backlight current consumption	LED/edge	VB/L=2.1V	-	-	-	mA
	LED/array	VB/L=4.2V	-	-	-	mA

REMARK

LCD option: STN, TN, FSTN

Backlight Option: LED, EL Backlight feature, other Specs not available on catalog is under request.

