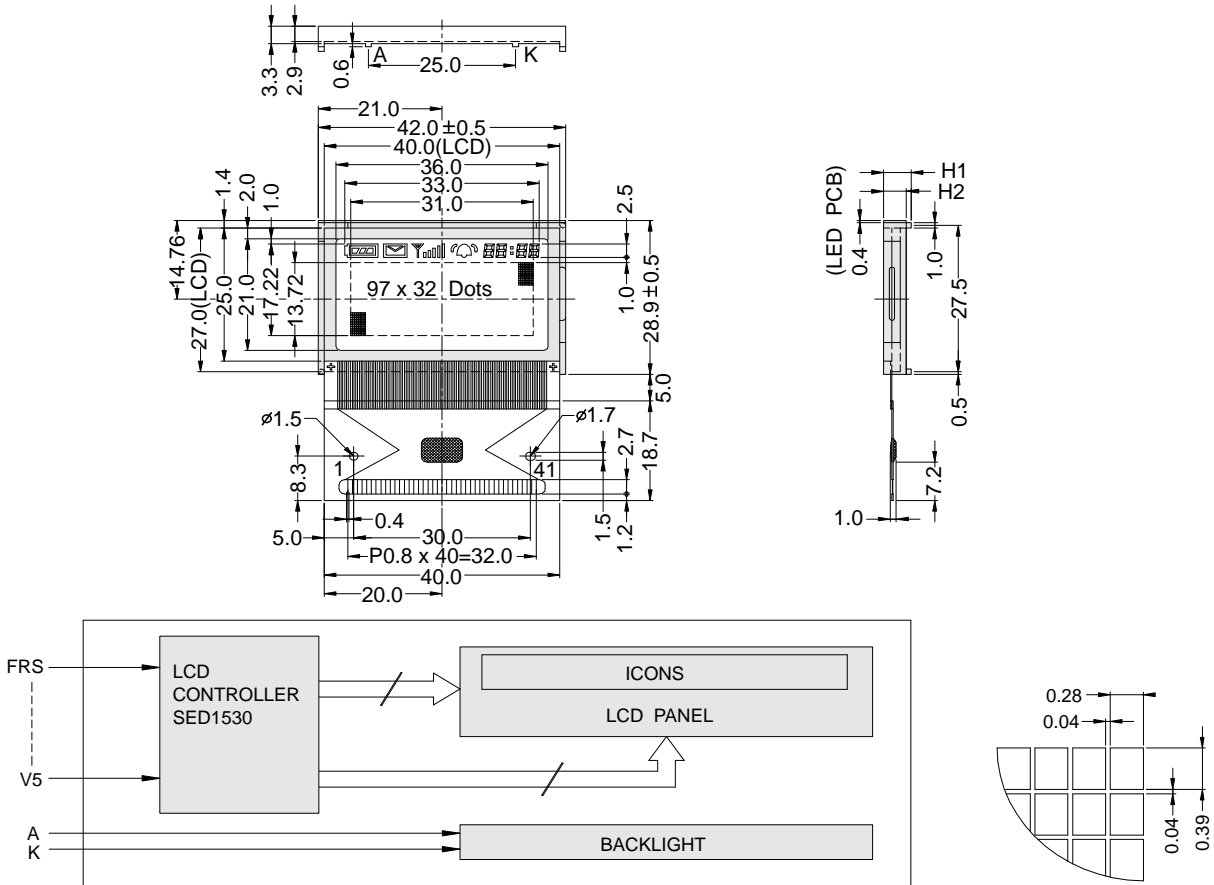




OUTLINE DIMENSION & BLOCK DIAGRAM



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

MECHANICAL SPECIFICATION			
Overall Size	42.0 x 28.9	Module	H2 / H1
View Area	36.0 x 21.0	W/O B/L	- / -
Dot Size	0.28 x 0.39	EL B/L	- / -
Dot Pitch	0.32 x 0.43	LED B/L	3.9 / 4.7

PIN ASSIGNMENT		
Pin no.	Symbol	Function
1	N.C	NO Connection
2	FRS	Static driver output
3	FR	LCD Ac signal I/O
4	Dyo	Common driver signal output
5	CL	DOF
6	DOF	LCD blanking control I/O
7	VS1	Internal power supply
8	M/S	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	A0	Control/display data flag
15	WR	Write enable input
16	RD	Databus output enable
17/26	Vdd/Vss	Power supply
18~25	D0-D7	Data bus line
27	Vout	DC voltage output
28~32	CAP1~CAP3	Capacitor connection
36~40	V1~V5	Bias for LCD driver supply voltage
34	VR	Voltage adjust

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	V
		-20°C	-	-	-	-	V
		0°C	-	-	-	-	V
		25°C	-	-	6.5	-	V
		50°C	-	-	-	-	V
70°C	-	-	-	-	V		
LCM current consumption (No B/L)	Idd	Vdd=5V	-	0.5	1	mA	
Backlight current consumption	LED/edge	VB/L=4.2V	-	40	-	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.





Products

- Mono Type Part Numbering System
- Color Type Part Numbering System
- COG Part Numbering System
- Mono COG Part Numbering System
- EMS Part Numbering System
- Self-made product Part Numbering System

Mono Type Part Numbering System

P C 16 02 * * * - * ** - * - *
1 2 3 4 5 6 7 8 9 10 11

No	Code value	Description	Remark
1	P	Powertip products	Brand
2	C	Character type	Module type
	G	Graphic type	
3	08,16,20,24...	Character per line (for character modules)	Characters per line or row dots
	120,122,128...	Row dots (for graphic modules)	
4	01,02,03,04,...	Lines (for graphic modules)	Lines or column dots
	32,240...	Column dots (for graphic modules)	
5	A	Without backlight	
	B	EL backlight blue-green	
	D	EL backlight yellow-green	
	E	EL backlight white	
	F	CCFL backlight white	
	L	LED backlight yellow-green	
	M	LED backlight amber	
	N	LED backlight red	Backlight mode
	O	LED backlight orange	(Type+Color)
	P	LED backlight pure-green	
	S	LED backlight green	
	T	Double LED backlight	
	U	LED backlight blue	
	V	LED backlight blue white	
	W	LED backlight white	
	R	Triple LED backlight	
6	R	Standard (Through hole, cable, connector and etc.)	Connecting type
	Y	Straight pin-header	
	Z	Right angle pin-header	
7	None	TN positive gray	
	N	TN negative blue	
	P	PBT(Pure Black Tech.)	
	Q	E-TN(Enhanced TN)	
	H	HTN Positive Gray	
	J	HTN Negative (Black/Blue)	
	S	STN positive gray	I CD Mode

U	STN positive yellow-green	
M	STN negative blue	
G	ASTN(Automotive STN)	
W	E-STN(Enhanced STN)	
F	FSTN positive white	
T	FSTN negative black	
Y	E-FSTN(Enhanced FSTN)	
8	0~Z	Series number Model name
9	00~ZZ	IC manufacturer/character pattern /total solution series number Table A
	NN	Without controller
10	A~Z	Refer to display viewing features system Table B
11	No Code value	Standard product Version
	01~ZZ	Special code

Table A

S*	SUMSUNG LSI	T*	TOSHIBA LSI	Y*	SANYO LSI
M*	MOTOROLA LSI	E*	EPSON LSI	H*	HITACHI LSI
N*	NOVATEK	W*	SITRONIX LSI	A*	APANPEC LSI
R*	SHARP LSI	P*	PHILIPS LSI	J*	JRC LSI
U*	UMC GROUP LSI	Z*	HOTEK LSI	O*	OKI LSI
B*	RAIO	C*	ASLIC	F*	TOMATO LSI
G*	AVANT	L*	SUNPLUS LSI		

Table B

Operation Temperature		Normal Temp.(NT):0°C~50°C		Wide Temp.(WT):-20°C~70°C	
Viewing direction		6:00	12:00	6:00	12:00
Polarizer	Reflective	A	D	G	J
	Transflective	B	E	H	K
	Transmissive	C	F	I	L

TOP

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