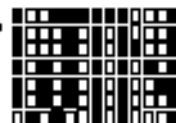


# MC1601H SERIES

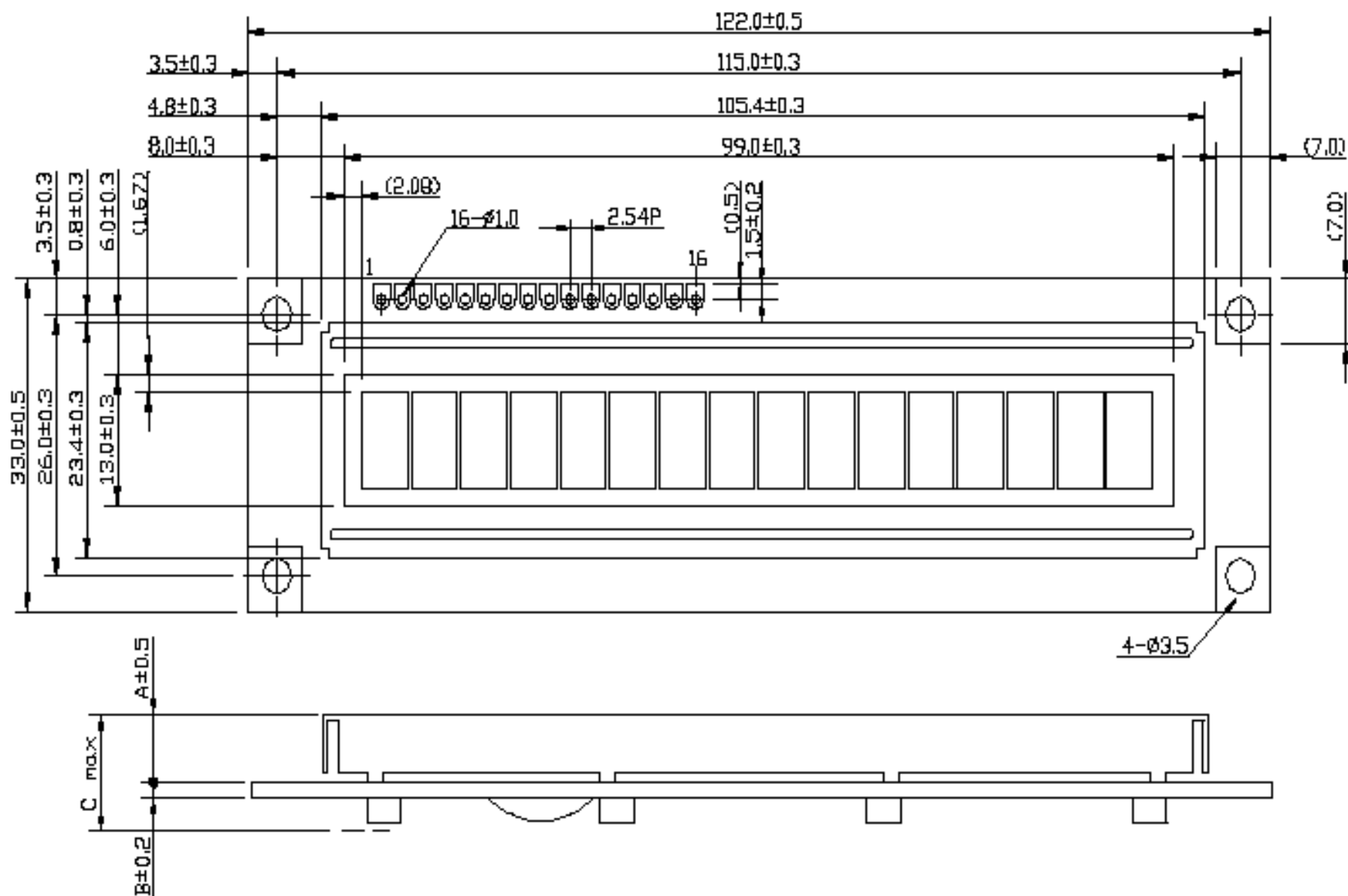
## (16 CH \* 1 L)

EVER-CATCHER  
GROUP  
WE CATCH THE  
BEST TECH. FOREVER



EVERBOUQUET / WAYTON

### EXTERNAL DIMENSION

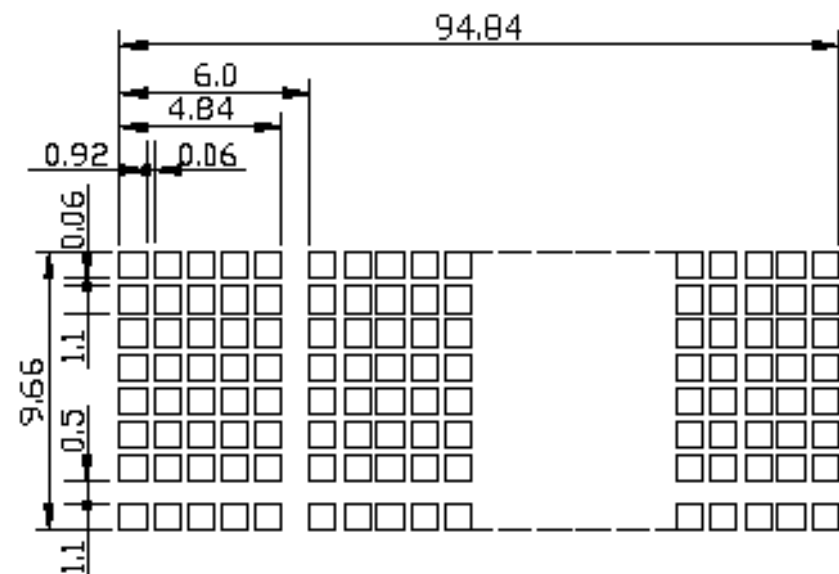


THICKNESS	A	B	C	UNIT
EL & NO B.L	4.9	1.6	10.0	mm
LED B.L	9.0	1.6	15.0	mm

### PIN CONNECTIONS

PIN NO	1	2	3	4	5	6	7
SYMBOL	V <sub>SS</sub>	V <sub>DD</sub>	V <sub>O</sub>	RS	R/W	E	DB0
PIN NO	8	9	10	11	12	13	14
SYMBOL	DB1	DB2	DB3	DB4	DB5	DB6	DB7
PIN NO	15		16				
SYMBOL	LED (+)		LED (-)				

### DISPLAY PATTERN



### DISPLAY DATA ADDRESS CHARTS

Character	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Line 1	00	01	02	03	04	05	06	07	40	41	42	43	44	45	46	47

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[Dimension](#)

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  - [MC1001A SERIES](#)
  - [MC1601A SERIES](#)
  - [MC16011A SERIES](#)
  - [MC1601H SERIES](#)
  - [MCG1602B SERIES](#)
  - [MC1602C SERIES](#)
  - [MC1602D SERIES](#)
  - [MC1602E SERIES](#)
  - [MC16021E SERIES](#)
  - [MC1602F SERIES](#)
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  - [MC1602X SERIES](#)

MC16021X SERIES

MC1604B SERIES

MC1604C SERIES

MC1604D SERIES

MC2001A SERIES

MC2002A SERIES

MC2002D SERIES

MC2002E SERIES

MC2004E SERIES

MC2402A SERIES

MC24021A SERIES

MC4002A SERIES

MC4004A SERIES

] GENERAL SPECIFICATIONS FOR CHARACTER LCD MODULE

] **GRAPHIC LCD MODULES**

MG1060A SERIES

MG10061B SERIES

MGG1006C SERIES

MG1203D SERIES

MG1203L SERIES

MG12064B SERIES

MG12064E SERIES

MG1304A SERIES

MG1304B SERIES

MG1624A SERIES

MG24065B SERIES

MG24065F SERIES

MG24065G SERIES

MG2416B SERIES

MG2432G SERIES

MG2432H SERIES

MG2432I SERIES

MG3224A SERIES

MG3224K SERIES

MG3224M SERIES

] BACKLIGHTS FOR LCD MODULE

] NUMBERING SYSTEM

] CHECK POINTS OF CUSTOM DESIGNED LCD MODULE

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¡°NOTE:

**The information contained herein is tentative and may be changed without prior notice. it is therefore advisable to contact EVERBOUQUET/WAYTON before processing with the design of equipment in incorporating this product.**



# EVERBOUQUET INTERNATIONAL CO., LTD. WAYTON TECHNOLOGY

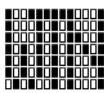
Office:13F-3, NO. 8, Lane 280, Sec.6, Minchuan E. Rd.,  
Nei-Hu 114, Taipei, Taiwan, R.O.C.

TEL: 886-2-26331253      FAX:886-2-26312881

E-mail: rayharn@everbouquet.com.tw

<http://www.everbouquet.com.tw/>

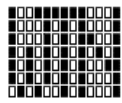
Factory: No.220-10, Lane 80, Chinan Rd., Tashe Hsiang,  
Kaohsiung, Taiwan, R.O.C.



# DIMENSIONAL OVERVIEW FOR DOT MATRIX LCD MODULES

## CHARACTER TYPE

DISPLAY FORMAT CHAR * Line	MODEL NO.	MODULE DIMENSIONS W * H * D (max) mm	VIEWING AREA W * H mm	CHARACTER SIZE W * H mm	DOT SIZE W * H mm	DOT PITCH	WEIGHT (g)	VARIATION					MATCHING CONTROL LSI
								TN	STN	R	E	L	
8 * 2	<a href="#">MC0802A</a>	25.0 * 17.5 * 4.3	21.0 * 9.0	1.845 * 2.595	0.345 * 0.345	0.375 * 0.375	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BUILT-IN CONTROL LSI S6A0069 or Equivalent
8 * 2	<a href="#">MC0802B</a>	44.0 * 25.0 * 10.0	35.8 * 14.0	3.15 * 4.78	0.59 * 0.64	0.64 * 0.69	18	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10 * 1	<a href="#">MC1001A</a>	80.0 * 36.0 * 10.0	64.5 * 16.0	4.84 * 8.06	0.92 * 1.10	0.98 * 1.16	23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BUILT-IN CONTROL LSI S6A0069 or Equivalent
16 * 1	<a href="#">MC1601A</a>	80.0 * 36.0 * 10.0	64.5 * 16.0	3.07 * 5.73	0.55 * 0.75	0.63 * 0.83	23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16 * 1	<a href="#">MC16011A</a>	80.0 * 36.0 * 10.0	64.5 * 16.0	3.07 * 5.73	0.55 * 0.75	0.63 * 0.83	23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BUILT-IN CONTROL LSI S6A0069 or Equivalent
16 * 1	<a href="#">MC1601H</a>	122.0 * 33.0 * 10.0	99.0 * 13.0	4.85 * 8.06	0.92 * 1.10	0.98 * 1.16	23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16 * 2 (COG)	<a href="#">MCG1602B</a>	69.5 * 27.4 * 2.7	61.0 * 15.1	2.95 * 4.85	0.55 * 0.65	0.60 * 0.70	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NT7603
16 * 2	<a href="#">MC1602C</a>	80.0 * 36.0 * 10.0	64.5 * 16.0	2.96 * 4.86	0.56 * 0.66	0.60 * 0.70	30	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BUILT-IN CONTROL LSI S6A0069 or Equivalent
16 * 2	<a href="#">MC1602D</a>	85.0 * 30.0 * 10.0	64.5 * 16.0	2.96 * 4.86	0.56 * 0.66	0.60 * 0.70	25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16 * 2	<a href="#">MC1602E</a>	84.0 * 44.0 * 10.0	64.5 * 16.0	2.96 * 4.86	0.56 * 0.66	0.60 * 0.70	24	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BUILT-IN CONTROL LSI S6A0069 or Equivalent
16 * 2	<a href="#">MC16021E</a>	84.0 * 44.0 * 10.0	64.5 * 16.0	2.96 * 4.86	0.56 * 0.66	0.60 * 0.70	25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16 * 2	<a href="#">MC1602F</a>	85.0 * 36.0 * 10.0	64.5 * 16.0	2.96 * 4.86	0.56 * 0.66	0.60 * 0.70	25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BUILT-IN CONTROL LSI S6A0069 or Equivalent
16 * 2	<a href="#">MC1602J</a>	122.0 * 44.0 * 10.0	99.0 * 24.0	4.84 * 8.06	0.92 * 1.10	0.98 * 1.16	48	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16 * 2	<a href="#">MC16021J</a>	106.5 * 43.5 * 10.0	99.0 * 24.0	4.84 * 8.06	0.92 * 1.10	0.98 * 1.16	48	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BUILT-IN CONTROL LSI S6A0069 or Equivalent
16 * 2	<a href="#">MC1602M</a>	85.0 * 32.6 * 10.0	64.5 * 16.0	2.96 * 4.86	0.56 * 0.66	0.60 * 0.70	23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16 * 2	<a href="#">MC1602Q</a>	65.5 * 36.7 * 10.0	51.8 * 14.8	2.45 * 4.08	0.45 * 0.54	0.50 * 0.59	19	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BUILT-IN CONTROL LSI S6A0069 or Equivalent
16 * 2	<a href="#">MC1602X</a>	59.0 * 29.3 * 4.0	52.0 * 15.0	2.45 * 4.08	0.45 * 0.54	0.50 * 0.59	7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16 * 2	<a href="#">MC16021X</a>	59.0 * 29.3 * 5.2	52.0 * 15.0	2.45 * 4.08	0.45 * 0.54	0.50 * 0.59	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BUILT-IN CONTROL LSI S6A0069 or Equivalent
16 * 4	<a href="#">MC1604B</a>	87.0 * 60.0 * 10.0	61.8 * 25.2	2.95 * 4.15	0.56 * 0.56	0.60 * 0.60	40	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16 * 4	<a href="#">MC1604C</a>	72.0 * 48.0 * 10.0	61.8 * 25.2	2.95 * 4.15	0.56 * 0.56	0.60 * 0.60	36	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BUILT-IN CONTROL LSI S6A0069 or Equivalent
16 * 4	<a href="#">MC1604D</a>	77.0 * 51.0 * 10.0	61.8 * 25.2	2.95 * 4.15	0.56 * 0.56	0.60 * 0.60	36	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
20 * 1	<a href="#">MC2001A</a>	182.0 * 33.5 * 10.0	154.0 * 15.3	6.70 * 9.40	1.30 * 1.30	1.35 * 1.35	60	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BUILT-IN CONTROL LSI S6A0069 or Equivalent
20 * 2	<a href="#">MC2002A</a>	116.0 * 37.0 * 10.0	84.0 * 19.0	3.20 * 4.85	0.60 * 0.65	0.65 * 0.70	37	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
20 * 2	<a href="#">MC2002D</a>	116.0 * 37.0 * 10.0	84.0 * 19.0	3.20 * 4.85	0.60 * 0.65	0.65 * 0.70	37	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BUILT-IN CONTROL LSI S6A0069 or Equivalent
20 * 2	<a href="#">MC2002E</a>	190.0 * 54.0 * 10.0	149.0 * 31.0	6.0 * 12.75	1.16 * 1.55	1.21 * 1.20	93	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
20 * 4	<a href="#">MC2004E</a>	98.0 * 60.0 * 10.0	76.0 * 25.2	2.95 * 4.15	0.55 * 0.55	0.65 * 0.60	48	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BUILT-IN CONTROL LSI S6A0069 or Equivalent
24 * 2	<a href="#">MC2402A</a>	118.0 * 36.0 * 10.0	96.0 * 18.8	3.20 * 4.85	0.60 * 0.65	0.65 * 0.70	36	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
24 * 2	<a href="#">MC24021A</a>	118.0 * 36.0 * 10.0	96.0 * 18.8	3.20 * 4.85	0.60 * 0.65	0.65 * 0.70	36	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BUILT-IN CONTROL LSI S6A0069 or Equivalent
40 * 2	<a href="#">MC4002A</a>	182.0 * 33.5 * 10.0	154.0 * 15.3	3.20 * 4.85	0.60 * 0.65	0.65 * 0.70	60	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
40 * 4	<a href="#">MC4004A</a>	190.0 * 54.0 * 10.0	149.0 * 31.0	2.78 * 4.27	0.50 * 0.55	0.57 * 0.62	93	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BUILT-IN CONTROL LSI S6A0069 or Equivalent



# DIMENSIONAL OVERVIEW FOR DOT MATRIX LCD MODULES

## GRAPHIC TYPE

DOT NUMBER W * H DOT	MODEL NO.	MODULE DIMENSIONS W * H * D (max) mm	VIEWING AREA W * H mm	DOT SIZE W * H mm	DOT PITCH W * H mm	POWER SUPPLY	WEIGHT (g)	VARIATION						MATCHING CONTROL LSI
								FSTN	STN	R	E	L	CCFL	
100 * 60	<a href="#">MG1060A</a>	41.0 * 40.0 * 7.0	34.0 * 25.0	0.27 * 0.32	0.30 * 0.35	+3V,+5V	14	○	○	○	○	○		Built-in SED1560
100 * 64font>	<a href="#">MG10061B</a>	68.0 * 43.8 * 9.5	57.0 * 35.0	0.47 * 0.47	0.50 * 0.50	+3V,+5V	23	○	○	○	○	○		Built-in SED1560
100 * 64 (COG)	<a href="#">MGG1006C</a>	48.0 * 40.0 * 2.9	44.0 * 27.0	0.33 * 0.33	0.36 * 0.36	+3V,+5V	12	○	○	○	○	○		Built-in SPLC501C
122 * 32	<a href="#">MG1203D</a>	68.0 * 31.7 * 8.0	57.2 * 17.7	0.39 * 0.39	0.43 * 0.43	+5V	19	○	○	○	○	○		Built-in SED1520
122 * 32	<a href="#">MG1203L</a>	59.0 * 29.3 * 5.0	52.0 * 15.0	0.345 * 0.345	0.375 * 0.375	+5V	10	○	○	○	○	○		Built-in SED1520
128 * 64	<a href="#">MG12064B</a>	93.0 * 70.0 * 10.0	71.0 * 39.0	0.48 * 0.48	0.52 * 0.52	+5V	48	○	○	○	○	○		Built-in S6B0107B
128 * 64	<a href="#">MG12064E</a>	63.2 * 54.0 * 8.0	54.0 * 36.0	0.35 * 0.45	0.39 * 0.49	+5V	25	○	○	○	○	○		Built-in S6B0107B
132 * 48	<a href="#">MG1304A</a>	37.6 * 16.8 * 1.8	34.6 * 12.8	0.215 * 0.215	0.23 * 0.23	+3V	10	○	○	○	○	○		Built-in NT7502
132 * 48	<a href="#">MG1304B</a>	37.6 * 16.8 * 1.8	34.6 * 12.8	0.215 * 0.215	0.23 * 0.23	+3V	10	○	○	○	○	○		Built-in NT7502
160 * 240	<a href="#">MG1624A</a>	56.9 * 75.6 * 4.5	47.5 * 67.6	0.225 * 0.225	0.24 * 0.24	+3.3V, +25V	20	○	○	○	○	○		(SED1335, MSM6255,)
240 * 64	<a href="#">MG24065B</a>	140.0 * 62.0 * 10.0	111.6 * 37.0	0.41 * 0.47	0.44 * 0.50	+5V	74	○	○	○	○	○		Built-in LC7981
240 * 64	<a href="#">MG24065F</a>	125.0 * 60.0 * 10.0	111.6 * 37.0	0.41 * 0.47	0.44 * 0.50	+5V	70	○	○	○	○	○		Built-in T6963C
240 * 64	<a href="#">MG24065G</a>	180.0 * 65.0 * 10.0	134.0 * 40.0	0.49 * 0.49	0.23 * 0.26	+3V	20	○	○	○	○	○		Built-in T6963C
240 * 160	<a href="#">MG2416B</a>	67.0 * 52.5 * 4.5	62.0 * 45.7	0.22 * 0.25	0.24 * 0.24	+3.3V, +25V	40	○	○	○	○	○		Built-in UC1611
240 * 320(Duty:1/320)	<a href="#">MG2432G</a>	71.5 * 92.1 * 8.0	60.6 * 79.8	0.225 * 0.225	0.24 * 0.24	+3.3V, +25V	40	○	○	○	○	○		(SED1335, MSM6255)
240 * 320(Duty:1/240)	<a href="#">MG2432H</a>	71.5 * 92.1 * 8.0	60.6 * 79.8	0.225 * 0.225	0.24 * 0.24	+3.3V, +25V	40	○	○	○	○	○		(SED1335, MSM6255)
240 * 320	<a href="#">MG2432I</a>	71.5 * 92.1 * 9.0	60.6 * 79.8	0.225 * 0.225	0.24 * 0.24	+5V	45	○	○	○	○	○		Built-in SED1335A
320 * 240	<a href="#">MG3224A</a>	167.5 * 109.0 * 10.5	120.5 * 92.0	0.33 * 0.33	0.36 * 0.36	+5V, -20V	200	○	○	○	○	○		(SED1335,MSM6255)
320 * 240	<a href="#">MG3224K</a>	167.5 * 109.0 * 10.5	120.5 * 92.0	0.33 * 0.33	0.36 * 0.36	+5V	200	○	○	○	○	○		(SED1335,MSM6255)
320 * 240	<a href="#">MG3224M</a>	167.5 * 109.0 * 10.5	120.5 * 92.0	0.33 * 0.33	0.36 * 0.36	+5V	200	○	○	○	○	○		Built-in SED1335A

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- Note :
- 1.Many models have different options of thickness, please individually check catalog and/or with us if you need.
  - 2.Power supply for LED backlight and logic: can be common or separate.
  - 3.Common temp. range: operating: 0℃J~+50℃J; Storage: -20℃J~+70℃J.  
Wide temp. range: operating: -20℃J~+70℃J; Storage: -20℃J~+70℃J  
Above temp. range is only general, individual model possibly has different range, please check with us if necessary.
  - 4.Now 1/4 VGA also has built-in IC controller, please refer to MG2432I and MG3224M.
  - 5.Touch screen is also available without tooling charge for some models, please check with us when you need it.



