



**BONA**

Display Specialist

## Character LCD module Series

Display Format	Part No	Variation	Dot Size (W x H mm)	Dot Pitch (W x H mm)	Viewing Area (W x H mm)	Outline Dimension (W x H x T mm)	Built-in Controller	Multiplex / Bias	Page	
8 x 1	MC0801-01	Reflective	1.25 x 1.30	1.30 x 1.35	61.00 x 15.80	84.0x44.0x12.0	KS0066U	1/8 duty 1/4 bias	15	
		EL				84.0x44.0x12.0				
		LED				84.0x44.0x14.0				
	MC0801-02	Reflective	0.83 x 0.93	0.90 x 1.00	45.00 x 14.00	60.0x33.0x8.0	KS0066U	1/8 duty 1/4 bias	16	
8 x 2	MC0802-01	Reflective	0.50 x 0.50	0.57 x 0.57	30.00 x 14.00	40.0x35.5x7.4	KS0066U	1/16 duty 1/5 bias	17	
12 x 2	MC1202-01	Reflective	0.396 x 0.48	0.448 x 0.512	34.0 x 12.0	37.0x23.0x2.0	SPLC093	1/17 duty 1/5 bias	18	
14x2+Icons	MC1402-01	EL	0.48 x 0.48	0.52 x 0.52	48.0 x 11.5	51.0x16.5x 4.1	S6A0074	1/33 duty 1/6 bias	19	
16 x 1	MC1601-01	Reflective	0.60 x 0.75	0.65 x 0.80	64.50 x 13.80	79.5x35.5x9.0	KS0066U	1/16 duty 1/5 bias	20	
		EL				79.5x35.5x9.0				
		LED				79.5x35.5x13.0				
	MC1601-02	Reflective	0.60 x 0.75	0.65 x 0.80	64.50 x 13.80	79.5x35.5x9.0	KS0066U	1/16 duty 1/5 bias	21	
EL		79.5x35.5x9.0								
LED		79.5x35.5x13.0								
16 x 2	MC1602-03	Reflective	0.92 x 1.10	0.98 x 1.16	99.00 x 24.00	122.0x44.0x11.0	KS0066U	1/16 duty 1/5 bias	22	
		EL				122.0x44.0x11.0				
		LED				122.0x44.0x14.0				
		MC1602-04	Reflective	0.55 x 0.65	0.60 x 0.70	65.60 x 16.00	84.0x44.0x9.5	KS0066U	1/16 duty 1/5 bias	23
	EL		84.0x44.0x9.5							
	LED		84.0x44.0x13.0							
		MC1602-13	Reflective	0.55 x 0.50	0.60 x 0.55	65.60 x 16.00	79.5x35.5x10.0	KS0066U	1/16 duty 1/5 bias	24
	EL		79.5x35.5x10.0							
	LED		79.5x35.5x13.0							
		MC1602-17	Reflective	0.55 x 0.65	0.60 x 0.70	65.60 x 16.00	79.5x35.5x9.5	KS0066U	1/16 duty 1/5 bias	25
	EL		79.5x35.5x9.5							
	LED		79.5x35.5x13.0							
		MC1602-18	Reflective	0.55x0.50	0.60x0.55	64.40 x 13.80	79.5x35.5x9.5	KS0066U	1/16 duty 1/5 bias	26
	EL		79.5x35.5x9.5							
	LED		79.5x35.5x13.0							
	MC1602-19	Reflective	0.55x0.60	0.60x0.65	61.0x15.7	65.0x27.7x3.4	NT7603	1/16 duty 1/5 bias	27	
	MC1602-20	EL	0.55x0.60	0.60x0.65	61.0x15.7	65.0x27.7x3.16	ML9042	1/16 duty 1/5 bias	28	
	MC1602-21	Reflective	0.55 x 0.65	0.60 x 0.70	61.0x16.0	85.0x32.5x9.0	KS0066U	1/16 duty 1/5 bias	29	
		EL				85.0x32.5x9.0				
		LED				85.0x32.5x13.0				
16 x 4	MC1604-01	Reflective	0.55 x 0.55	0.60 x 0.60	61.60 x 25.20	87.0x60.0x10.0	KS0066U	1/16 duty 1/5 bias	30	
		EL				87.0x60.0x10.0				
		LED				87.0x60.0x14.0				
	MC1604-02	LED	0.56 x 0.56	0.60 x 0.60	61.80 x 25.20	87.0x60.0x15.0	SPLC780	1/16 duty 1/5 bias	31	
20 x 2	MC2002-01	Reflective	0.60 x 0.65	0.65 x 0.70	85.00 x 19.80	116.0x37.0x10.0	KS0066U	1/16 duty 1/5 bias	32	
		EL				116.0x37.0x10.0				
		LED				116.0x37.0x14.0				
		MC2002-02	Reflective	0.60 x 0.65	0.65 x 0.70	85.00 x 19.80	116.0x39.0x10.0	KS0066U	1/16 duty 1/5 bias	33
	EL		116.0x39.0x10.0							
	LED		116.0x39.0x14.0							
		MC2002-03	Reflective	0.60 x 0.65	0.65 x 0.70	85.00 x 19.80	116.0x37.0x10.0	KS0066U	1/16 duty 1/5 bias	34
	EL		116.0x37.0x10.0							
	LED		116.0x37.0x14.0							

### REMARKS:

- Most of the modules have normal and wide operation temperature options.
- For details, please consult our sales engineers or representatives.
- Specifications not listed here can be available upon request
- Temperature Range:
  - Normal Temperature: Storage Temp. = -10 to +60 ; Operating Temp. = +0 to 50 .
  - Wide Temperature: Storage Temp. = -30 to +80 ; Operating Temp. = -20 to 70 .
  - Extended wide temperature: Storage Temp. = -35 to +85 ; Operating Temp. = -30 to 80 .

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20 x 4	MC2004-01	Reflective	0.55 x 0.55	0.60 x 0.60	76.00 x 25.20	98.0x60.0x11.0	KS0066U	1/16 duty 1/5 bias	35
		EL				98.0x60.0x11.0			
		LED				98.0x60.0x14.0			
	MC2004-02	Reflective	0.76 x 0.89	0.81 x 0.94	98.0 x 40.0	112.0x65.0x11.0	KS0066U	1/16 duty 1/5 bias	36
		EL				112.0x65.0x11.0			
		LED				112.0x65.0x14.10			
MC2004-04	LED	0.55 x 0.55	0.60 x 0.60	76.0 x 25.2	98.0x60.0x15.0	S6A0069	1/16 duty 1/5 bias	37	
24 x 2	MC2402-01	Reflective	0.60 x 0.65	0.65 x 0.70	93.50 x 15.80	118.0x36.0x11.0	KS0066U	1/16 duty 1/5 bias	38
		EL				118.0x36.0x11.0			
		LED				118.0x36.0x14.0			
40 x 2	MC4002-01	Reflective	0.60 x 0.65	0.65 x 0.70	154.5 x 15.8	182.0x33.5x11.0	KS0066U	1/16 duty 1/5 bias	39
		EL				182.0x33.5x11.0			
		LED				182.0x33.5x14.0			
40 x 4	MC4004-01	Reflective	0.50 x 0.55	0.57 x 0.62	147.0 x 29.5	190.0x54.0x11.0	KS0066U	1/16 duty 1/5 bias	40
		EL				190.0x54.0x11.0			
		LED				190.0x54.0x14.0			

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  - Wide Temperature: Storage Temp. = -30 to +80 ; Operating Temp. = -20 to 70 .
  - Extended wide temperature: Storage Temp. = -35 to +85 ; Operating Temp. = -30 to 80 .