

MC42004A6W-SPTLY-V2 4 x 20		4mm Character Height	LCD Module			
Specification						
Version: 1		Date: 31/10/2016				
Revision						

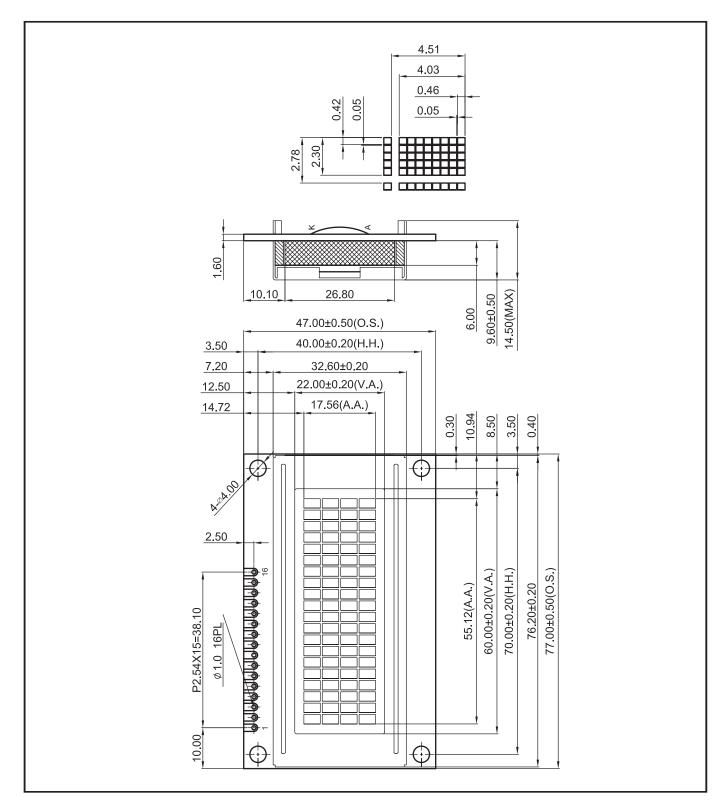
Display	Features		
Character Count	4 x 20		
Appearance	Black on Yellow/Green		
Logic Voltage	5V		
Interface	Parallel		
Font Set	English / Japanese		<b>COHS</b>
Display Mode	Transflective		
Character Height	4.03mm		ompliant
LC Type	STN		
Module Size	77.00 x 47.00 x 14.50 mm		
Operating Temperature	-20°C ~ +70°C		
Construction	СОВ	Box Quantity	Weight / Display
LED Backlight	Yellow/Green	45 pcs	28.88 grams

\* - For full design functionality, please use this specification in conjunction with the SPLC780D specification. (Provided Separately)

Disp	lay Accessories	
Part Number	Description	
MCCMDB-16SIL	LCD Interconnect board, can be driven from either a PC or a single Board computer with a USB output.	
MCCBL1A16SLIP -16DILS-150	16 Way, Sinlge in-line to Dual In-line connector Cable.	
MCCBL1A16SLIP -16SILS-150	16 Way, Single in-line to Single In-line connector Cable.	

Optional Variants							
Fonts	Appearances	Voltage					
English / Russian English / European	Black on White Black on Red Black on Amber White on Blue	3V					

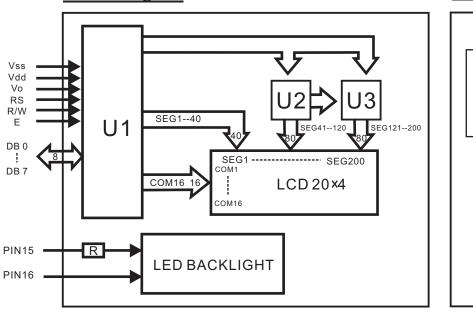
Mechanical Specifications									
Module Size	77	77.00 x 47.00 x 14.50 (With Backlight) W x H x D mm							
Viewing Area	60.00 x 22.00	W x H mm	Hole-to-Hole	70.00 x 40.00	W x H mm				
Character Size	2.30 x 4.03	W x H mm	Character Pitch	0.48 x 0.48	W x H mm				
Dot Size	0.42 x 0.46	W x H mm	Dot Pitch	0.05 x 0.05	W x H mm				



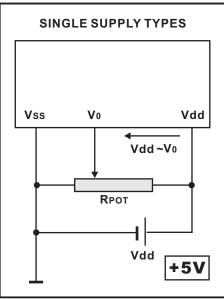
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	Pin Layout							
ΡI	SYMBOL	DESCRIPTION	REMARKS					
1	Vss	GND						
2	Vdd	Power supply for LCM	5.0V					
3	V0	Contrast Adjust						
4	RS	Register Select Signal						
5	R/W	Data Read / Write						
6	E	Enable Signal						
7	DB0	Data bus line						
8	DB1	Data bus line						
9	DB2	Data bus line						
10	DB3	Data bus line						
11	DB4	Data bus line						
12	DB5	Data bus line						
13	DB6	Data bus line						
14	DB7	Data bus line						
15	LED+	Power supply for BKL	5.0V					
16	LED-	Power supply for BKL						

**Block Diagram** 



## Power Supply Diagram



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## Font Map

Upper 4bit	LLLL	LLLH	LLHL	LLHH	LHLL	LHLH	LHHL	LННН	HLLL	HLLH	нгнг	нгнн	HHLL	ннгн	НННГ	нннн
Lower 4bit																
LLLL	CG RAM (1)															
LLLH	(2)															
LLHL	(3)															
LLHH	(4)															
LHLL	(5)															
LHLH	(6)															
LHHL	(7)															
LННН	(8)															
HLLL	(1)															
HLLH	(2)															
HLHL	(3)															
нгнн	(4)															
HHLL	(5)															
HHLH	(6)															
HHHL	(7)															
нннн	(8)															

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Absolute Maximum Ratings										
Item	Symbol	Condition	Min	Тур	Max	Unit				
Power Supply (LOGIC)	Vdd	25°C	-0.3		7.0	V				
Power Supply (LCD)	V0	25°C	Vdd -13.5		Vdd +0.3	V				
Input Voltage	Vin	25°C	-0.3		Vdd +0.3	V				
Operating Temperature	Vopr		-20		70	С				
Storage Temperature	Vstg		-30		80	С				

Electronic Characteristics									
Item	Symbol	Condition	Min	Тур	Мах	Unit			
Input Voltage	VIcm = Vdd			5.0		V			
Supply Current	Idd	Vdd=5V		1.5		mA			
		-20°C	4.30		4.65				
		0°C	4.27		4.67				
Driving Voltage for LCD Panel	Vlcd = (Vdd - V0)	25°C	4.25	4.50	4.70	V			
LCD Panel		50°C	4.10		4.60				
		70°C	4.00		4.50				

LCD Characteristics For STN/FSTN LCD Panel Types								
Viewing Angle	Φ2 – Φ1	K = 4	40°			Deg		
	Θ		60°					
Contrast Ratio	K		6					
Response Time (Rise)	TR			150	250	ms		
Response Time (Fall)	TF			150	250	ms		

LED Characteristics								
Item	Symbol	Condition	Min	Тур	Мах	Unit		
LED Forward Voltage	Vf	25°C		3.0		V		
LED Forward Current*	lf	25°C		5		mA		
LED Reverse Current	lr	25°C Vr=5.0V			10	μA		
LED Peak Wave Length	λр	25°C lf=5mA	569		575	nm		
LED Brightness (Without LCD)	Lv	25°C lf=5mA		93		cd/m <sup>2</sup>		
LED Brightness Uniformity	Lvmin/Lvmax	25°C lf=5mA	70			Ratio		
LED Life Time		25°C lf=5mA	20K			Hours		

**Attention:** It is constant current, not constant voltage, which should be applied when driving the LED backlight, please ensure you adhere to this rule.

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