


MC122032B6W-SPR-V2	122 x 32		LCD Module
Specification			
Version: 1		Date: 31/10/2016	
Revision			

Display Features					
Resolution	122 x 32				
Appearance	Black on Yellow/Green				
Logic Voltage	5V				
Interface	Parallel				
Font Set	N/A				
Display Mode	Reflective				
LC Type	STN				
Module Size	84.00 x 44.00 x 10.00				
Operating Temperature	-20°C ~ +70°C				
Construction	COB	Box Quantity	Weight / Display		
LED Backlight	---	45 pcs	28.88 grams		

* - For full design functionality, please use this specification in conjunction with the SBN1661G_M02 specification.(Provided Separately)

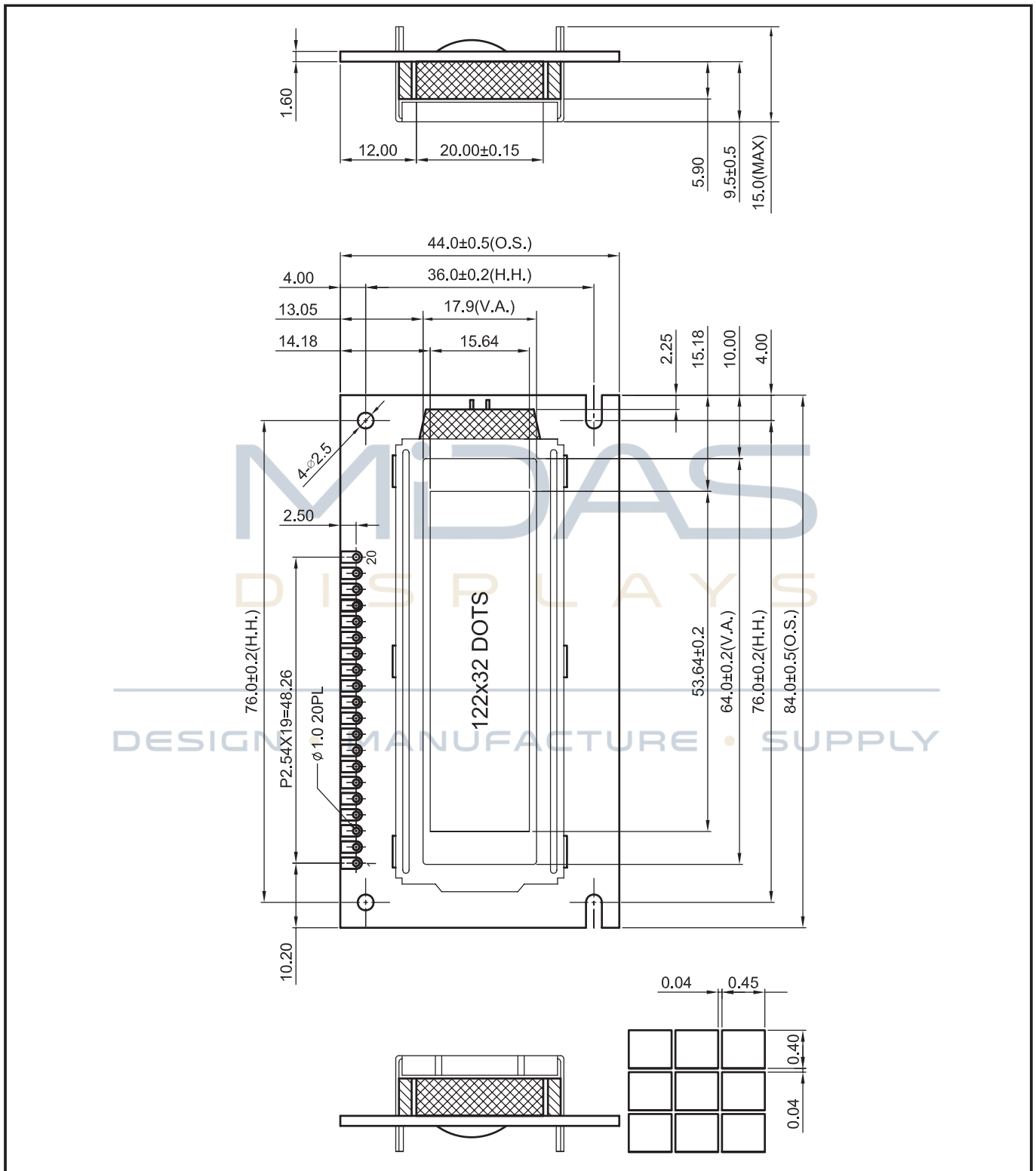
Display Accessories	
Part Number	Description
VBWFD1	USB PIC18F2550 microcontroller board to 20-way Single in-line COB Graphic LCD.

Optional Variants	
Appearances	Voltage
Black on White White on Blue	



Mechanical Specifications

Module Size	84.00 x 44.00 x 10.00 (Without Backlight)				W x H x D mm
Viewing Area	64.00 x 17.90	W x H mm	Hole-to-Hole	76.00 x 36.00	W x H mm
Dot Size	0.40 x 0.45	W x H mm	Dot Pitch	0.04 x 0.04	W x H mm



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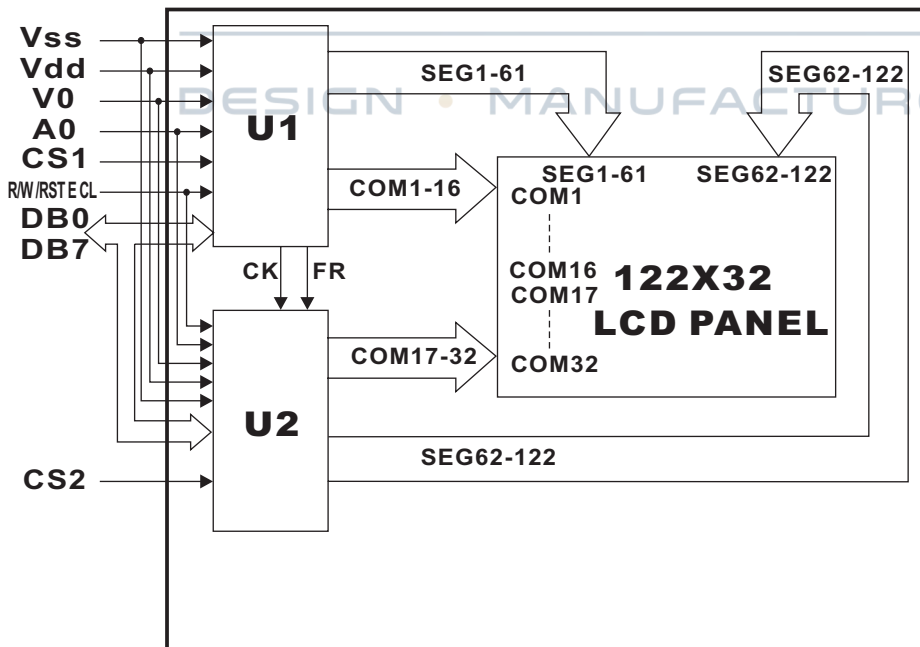


Pin Layout

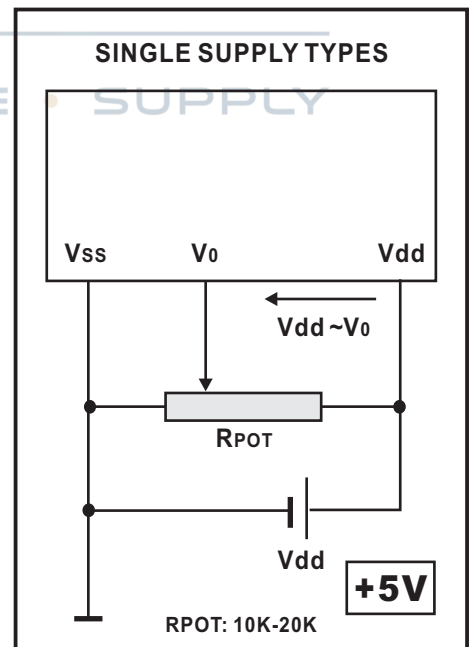
D j b	G r a V c `	8 Y g W j d h c b	F Y a U f _g
1	Vss	GND	
2	Vdd	Power Supply for LCM	5.0V
3	V0	Contrast Adjust	
4	A0	H/L H: Data; L: Instruction Code	
5	CS1	Chip 1 Enable Signal	
6	CS2	Chip 2 Enable Signal	
7	CL	Clock Input (2 KHz)	
8	E	Enable Signal	
9	R/W	Data Read / Write	
10	DB0	Data bus Line	
11	DB1	Data bus Line	
12	DB2	Data bus Line	
13	DB3	Data bus Line	
14	DB4	Data bus Line	
15	DB5	Data bus Line	
16	DB6	Data bus Line	
17	DB7	Data bus Line	
18	RST	Reset Signal	
19	NC	No Connection	
20	NC	No Connection	

MIDAS
DISPLAYS

Block Diagram



Power Supply Diagram



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Absolute Maximum Ratings

Item	Symbol	Condition	Min	Typ	Max	Unit
Power Supply (LOGIC)	Vdd	25°C	-0.3	---	7.0	V
Power Supply (LCD)	V0	25°C	Vdd -19.00	---	Vdd +0.3	V
Input Voltage	Vin	25°C	-0.3	---	Vdd +0.3	V
Operating Temperature	Vopr	---	-20	---	70	C
Storage Temperature	Vstg	---	-30	---	80	C

Electronic Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Input Voltage	Vlcm = Vdd	---	---	5.0	---	V
Supply Current	Idd	Vdd=5V	---	1.50	---	mA
Driving Voltage for LCD Panel	Vlcd = (Vdd - V0)	-20°C	4.25	---	4.70	V
		0°C	4.20	---	4.55	
		25°C	4.20	---	4.50	
		50°C	4.10	---	4.45	
		70°C	3.90	---	4.40	

LCD Characteristics

For STN/FSTN LCD Panel Types						
Item	Symbol	Condition	Min	Typ	Max	Unit
Viewing Angle	$\Phi 2 - \Phi 1$	K = 4	40°	---	---	Deg
	Θ		60°			
Contrast Ratio	K	---	---	10	---	---
Response Time (Rise)	TR	---	---	150	250	ms
Response Time (Fall)	TF	---	---	150	250	ms

DESIGN • MANUFACTURE • SUPPLY

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