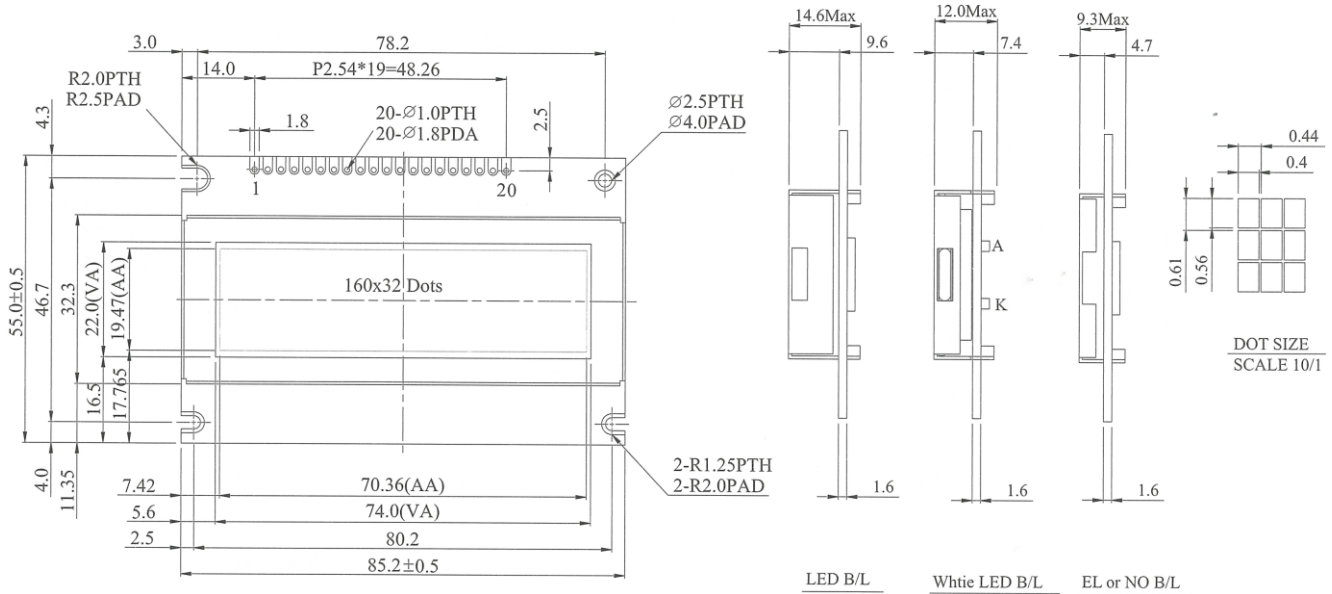


MSG16032A

Graphic 160x32 dots

GMS.

■ ■ ■ DISPLAY SYSTEMS



Feature		
1. Available for external oscilation 2KHz		
2. Built-in controller Avant (SBN1661G) or equivalent		
3. 1/32 duty cycle		
4. N.V. optional for +3V Power supply		
Pin	Symbol	Function
1	Vss	GND
2	Vdd	Power supply (+5V)
3	Vo	Contrast Adjustment
4	Ao	H->Data L->Instruction
5	CS1	CS1=0, CS2=0 Select U1 CS1=1, CS2=0 Select U2
6	CS2	CS1=0, CS2=1 Select U3
7	CL	External clock 2KHz
8	E	Enable signal
9	R/ \bar{W}	H: read data L: write data
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	RES	H->L Reset the LCM
19	A	Power supply for LED B/L (+)
20	K	Power supply for LED B/L (-)

Mechanical Data					
Item	Standard Value	Unit			
Module Dimension	85.2 x 55.0	mm			
Viewing Area	72.0 x 22.0	mm			
Mounting Hole	80.2 x 46.7	mm			
Dot Pitch	0.44 x 0.61	mm			
Absolute Maximum Rating					
Item	Symbol	Standard Value			Unit
		min	typ	max	
Power Supply	Vdd - Vss	4.75	5.0	5.25	V
Input Voltage	Vi	0	---	Vdd	V

Note: Vss= 0 V, Vdd=5.0 V

Electronical Characteristics						
Item	Symbol	Condition	Standard Value			Unit
			min	typ	max	
Input Voltage	Vdd	Vdd=+5V	4.5	5.0	5.5	V
Supply Current	Idd	Vdd=5V	---	1.0	1.4	mA
Recommended LC Driving Voltage for normal Temperature Version module	Vdd-Vo	-20°C	5.8	6.0	6.2	V
		0°C	5.6	5.8	6.0	
		25°C	5.3	5.5	5.7	
		50°C	5.1	5.3	5.5	
		70°C	4.8	5.0	5.2	

See Specification for Backlight information.

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