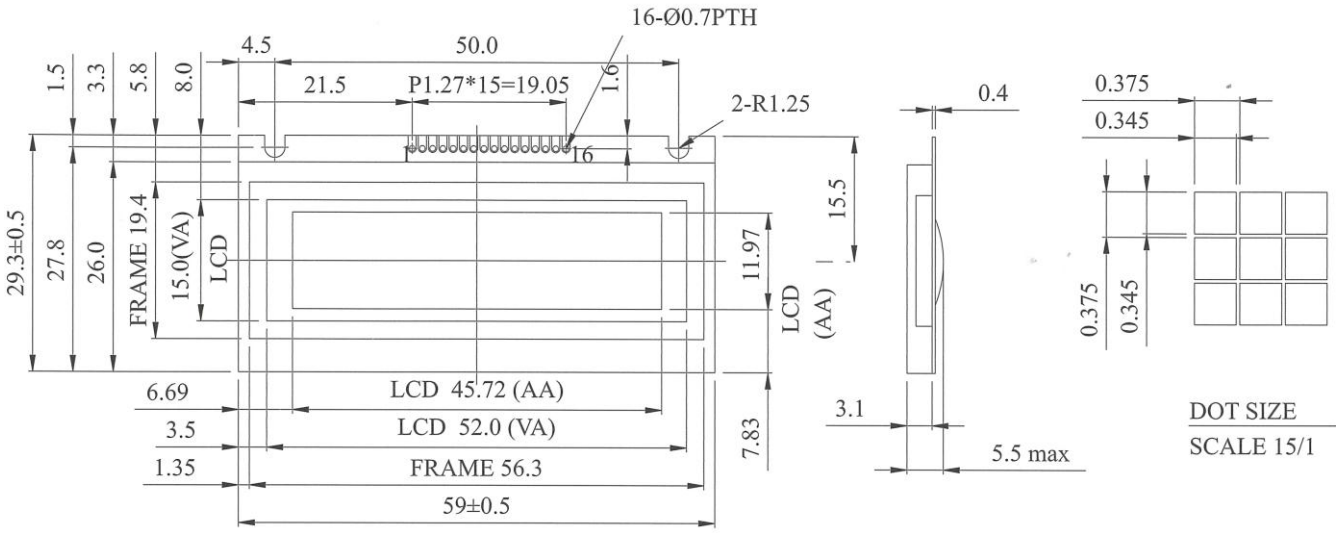
MSG12232N

Graphic 122x32 dots

GMS. DISPLAY SYSTEMS



Feature
1. Bulit-in Controller ST7920
2. 1/32 duty cycle
3. N.V. optional for +3.0V Power supply
4. Chinese Version
5. Same size with MSG12232D
6. White LED Backlight not available

Pin	Symbol	Function
1	**VLED**	B/L selected
2	Vss	GND
3	Vdd	Supply voltage for logic
4	Vo	Operating voltage for LCD
5	RS	H: data / L: instruction
6	E	Enable signal
7	Vout	Positive Voltage Output
8	DB0	Data bus line
9	DB1	Data bus line
10	DB2	Data bus line
11	DB3	Data bus line
12	DB4	Data bus line
13	DB5	Data bus line
14	DB6	Data bus line
15	DB7	Data bus line
16	R/W	H: read data / L: write data

Mechanical Data		
Item	Standard Value	Unit
Module Dimension	59.0 x 29.3	mm
Viewing Area	52.0 x 15.0	mm
Dot Size	0.345 x 0.345	mm
Dot Pitch	0.375 x 0.375	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	0.8	1.0	1.5	mA
Recommended LC Driving Voltage for normal Temperature Version module	Vdd-Vo	-20℃	---	---	5.8	V
		25℃	---	4.0	---	
		70℃	3.2	---	---	
See Specification for Backlight information.						

© 2012 GMS mbH. Errors and omissions excepted.

info@gms-ds.de
www.gms-ds.de

Richthofenstr. 3
78048 VS-Villingen
Germany