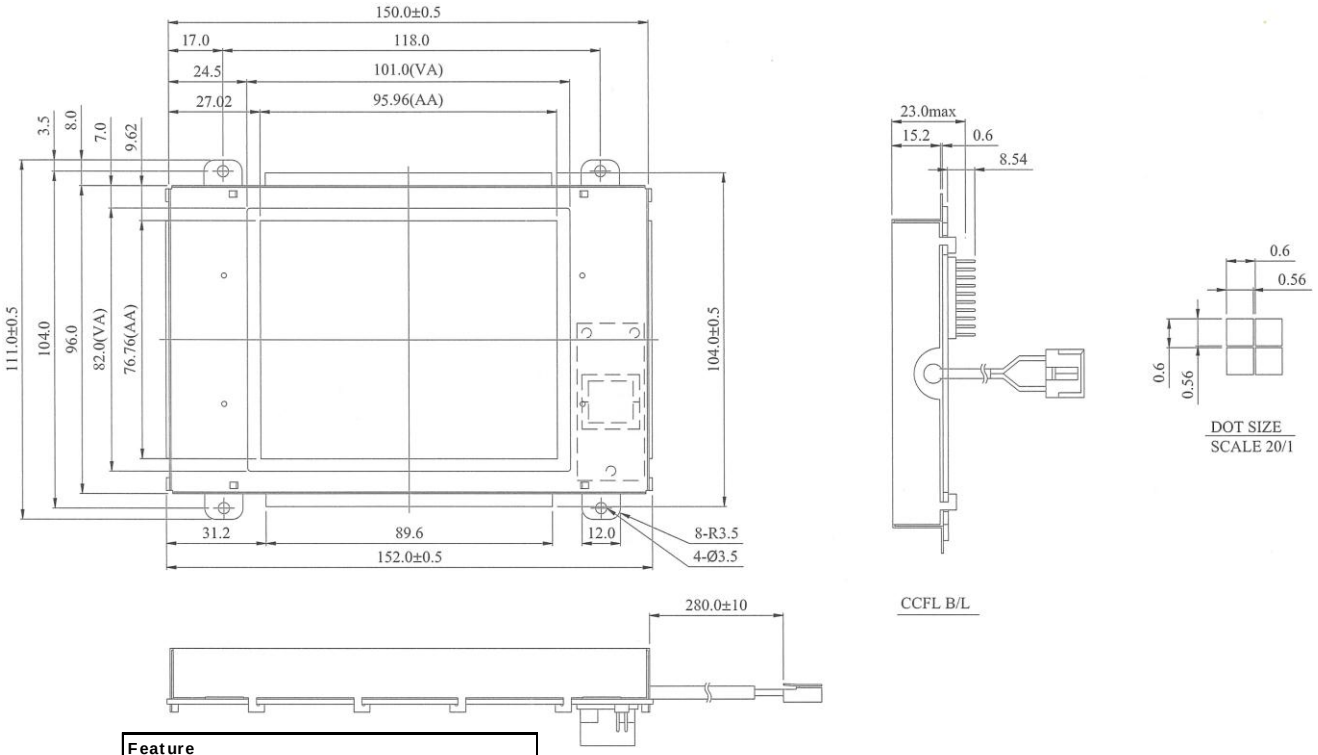
MSG160128C

Graphic 160x128 dots

GMS. DISPLAY SYSTEMS



Feature
1. Built-in controller RA6963
2. +5V Power supply
3. 1/128 duty cycle
4. Optional N.V.
5. Optional CCFL Inverter

Pin	Symbol	Function
1	FGND	Frame Ground
2	Vss	Power supply (GND)
3	Vdd	Power supply (+5V)
4	Vadj	Contrast Adjustment
5	Vee	Negative Voltage output
6	**WR**	Data write
7	**RD**	Data read
8	**CE**	Chip enable
9	C/**D**	Command / data read / write
10	**HALT**	Clock operating stop signal
11	**Reset**	Reset signal
12	DB0	Data bus line
13	DB1	Data bus line
14	DB2	Data bus line
15	DB3	Data bus line
16	DB4	Data bus line
17	DB5	Data bus line
18	DB6	Data bus line
19	DB7	Data bus line
20	NC	No connection

Mechanical Data

Item	Standard Value	Unit
Module Dimension	150.0 x 111.0	mm
Viewing Area	101.0 x 82.0	mm
Mounting Hole	118.0 x 105.0	mm
Dot Size	0.56 x 0.56	mm
Dot Pitch	0.60 x 0.60	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	-0.3	---	Vdd	V

Note: Vss= 0 V, Vdd= 5.0 V

Electronical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			min	typ	max	
Input Voltage	Vdd	L level	0.7Vdd	---	Vdd	V
	Vio	H level	0	---	0.3Vdd	
Supply Current	Idd	Vdd=+5V	---	45	50	mA
Recommended LC Driving Voltage for normal Temperature Version module	Vdd-Vo	-20℃	19.9	21.0	22.1	V
		0℃	19.0	---	21.2	
		25℃	18.6	19.1	19.6	
		50℃	16.2	16.5	16.8	
		70℃	11.6	9.1	12.8	

See Specification for Backlight information.

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