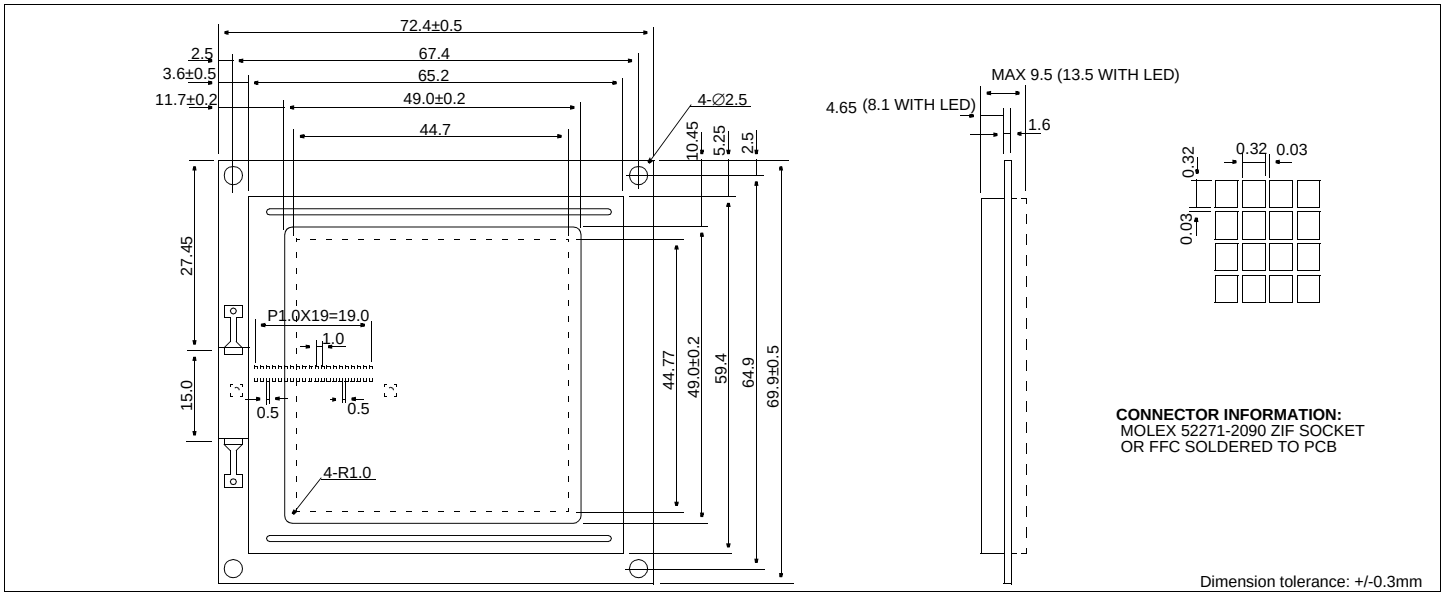
HDM128GS12_-1

Dimensional Drawing

128 X 128 Dots Graphic, Small Size



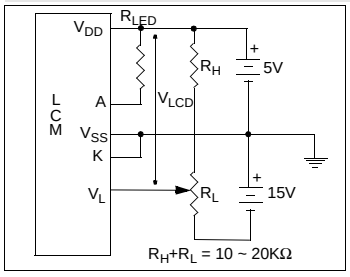
Features

Backlight.....EL or LED Optional
Options.....Gray STN / Yellow STN
Normal/Extended Temperature
Bottom / Top Viewing
Built-in Controller.....Toshiba T6963C

Physical Data

Module Size.....(None or EL) 72.4W x 69.9H x 9.5T mm
(LED) 72.4W x 69.9H x 13.5T mm
Viewing Area Size.....49.0W x 49.0H mm
Dot Pitch.....0.35W x 0.35H mm
Dot Size.....0.32W x 0.32H mm
Weight.....55g

Power Supply



Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	V_{DD}-V_{SS}	0	7.0	V
POWER SUPPLY FOR LCD	V_L		-21.0	V
INPUT VOLTAGE	V_{IN}	0	7.0	V
OPERATING TEMPERATURE	T_{OP}	0	50	°C
STORAGE TEMPERATURE	T_{STG}	-20	70	°C

Electrical Characteristics (VDD=5.0±0.25V 25°C)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
OPERATING VOLTAGE	V_{DD}	-	4.5	5.0	5.5	V
POWER SUPPLY FOR LCD	V_{DD}-V_L	-	16.7	17.7	18.6	V
INPUT HIGH VOLTAGE	V_{IH}	-	V_{DD} -2.2	-	V_{DD}	V
INPUT LOW VOLTAGE	V_{IL}	-	0	-	0.8	V
OUTPUT HIGH VOLTAGE	V_{OH}	I_{OH}=0.2mA	V_{DD} -0.4	-	V_{DD}	V
OUTPUT LOW VOLTAGE	V_{OL}	I_{OL}=1.2mA	0	-	0.4	V
POWER SUPPLY CURRENT	I_{DD}	V_{DD}=5.0V	-	-	4.0	mA
LED CURRENT	I_{LED}	V_{LED}=4.2V	160	250	320	mA
DRIVE METHOD	1/128 Duty					

Pin Connections

PIN NO.	SYMBOL	FUNCTION	
1	V_{SS}	0V	Ground
2	V_{DD}	5V	Power supply for logic
3	V_L	-	Operating voltage for LC
4	WR	L	Data write
5	RD	L	Data read
6	CE	L	Chip enable
7	CD	H/L	H=Command, L=Data
8	RESET	L	Reset
9	DB0	H/L	Data bus
10	DB1	H/L	
11	DB2	H/L	
12	DB3	H/L	
13	DB4	H/L	
14	DB5	H/L	
15	DB6	H/L	
16	DB7	H/L	
17	FS	H/L	Font select
18	N/C	-	No connection
19	K	-	LED Backlight
20	A	-	LED Backlight