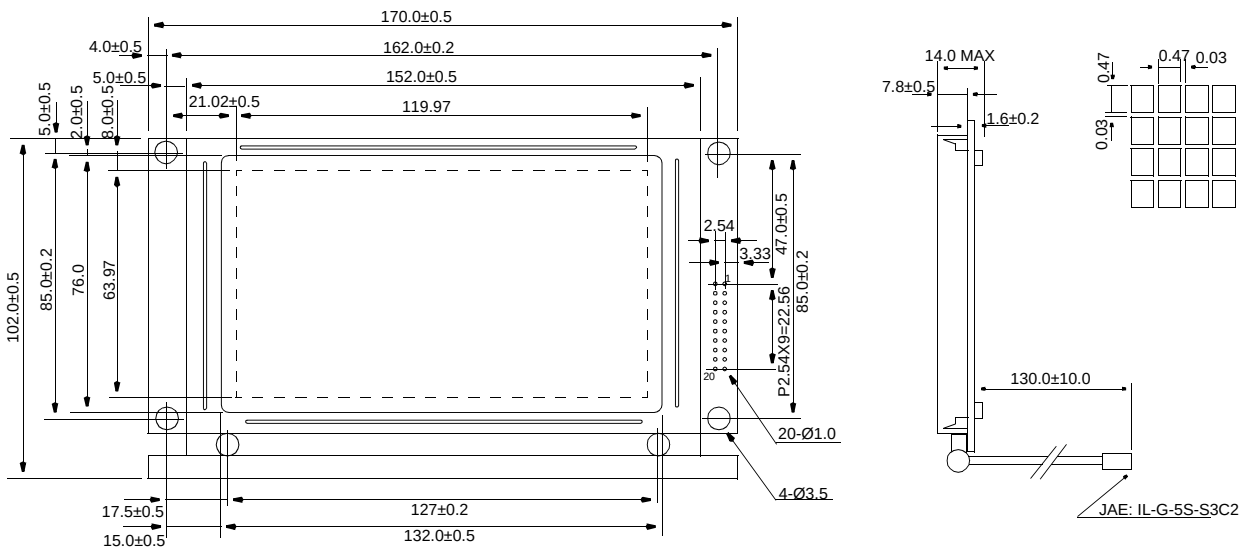
www.DataSheet4U.com

HDM128GS24Y-1

240 X 128 Dots Graphic, CCFL Backlight

Dimensional Drawing



Dimension tolerance: +/-0.3mm

Features

Backlight.....CCFL
Options.....Black and White FSTN
Normal/Extended Temperature
Bottom / Top Viewing
Built-in Controller.....Toshiba T6963C

Physical Data

Module Size.....170.0W x 102.0H x 14.0T mm
Viewing Area Size.....128.0W x 74.0H mm
Dot Pitch.....0.50W x 0.50H mm
Dot Size.....0.47W x 0.47H mm
Weight.....227g

Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	V_{DD}-V_{SS}	0	7.0	V
POWER SUPPLY FOR LCD	V_L	-29.0	7.0	V
INPUT VOLTAGE	V_{IN}	0	7.0	V
CCFL VOLTAGE	VFL	0	1500	Vrms
CCFL INPUT CURRENT	I_{FL}	-	10.0	mArms
OPERATING TEMPERATURE	T_{OP}	0	50	°C
STORAGE TEMPERATURE	T_{STG}	-20	60	°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	-	17.1	17.8	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
CCFL STARTING VOLT.	V_{FLS}	0°C	900	-	-	Vrms
CCFL FREQUENCY	f_{FL}	-	15	30	50	kHz
POWER SUPPLY CURRENT	I_{DD}	V_{DD}=5.0V	-	-	18.0	mA
DRIVE METHOD	1/128 Duty					

Pin Connections

PIN NO.	SYMBOL	FUNCTION	
DATA CONNECTOR			
1	FG	Frame ground	
2	V_{SS}	0V	Ground
3	V_{DD}	5V	Power supply for logic
4	V_L	-12.8V	Operating voltage for LC
5	WR	L	Data write
6	RD	L	Data read
7	CE	L	Chip enable
8	CD	H/L	H=Command, L=Data
9	N/C	No connection	
10	RESET	L	Reset
11	DB0	H/L	Data bus
12	DB1	H/L	
13	DB2	H/L	
14	DB3	H/L	
15	DB4	H/L	
16	DB5	H/L	
17	DB6	H/L	
18	DB7	H/L	
19	FS	H/L	Column select
20	RV	Display reverse	
CCFL CONNECTOR (IF USED)			
1	CCFL HOT	-	Power supply for the CCFL
2	N/C		No connection
3	N/C		No connection
4	N/C		No connection
5	CCFL GND	-	Power supply for the CCFL