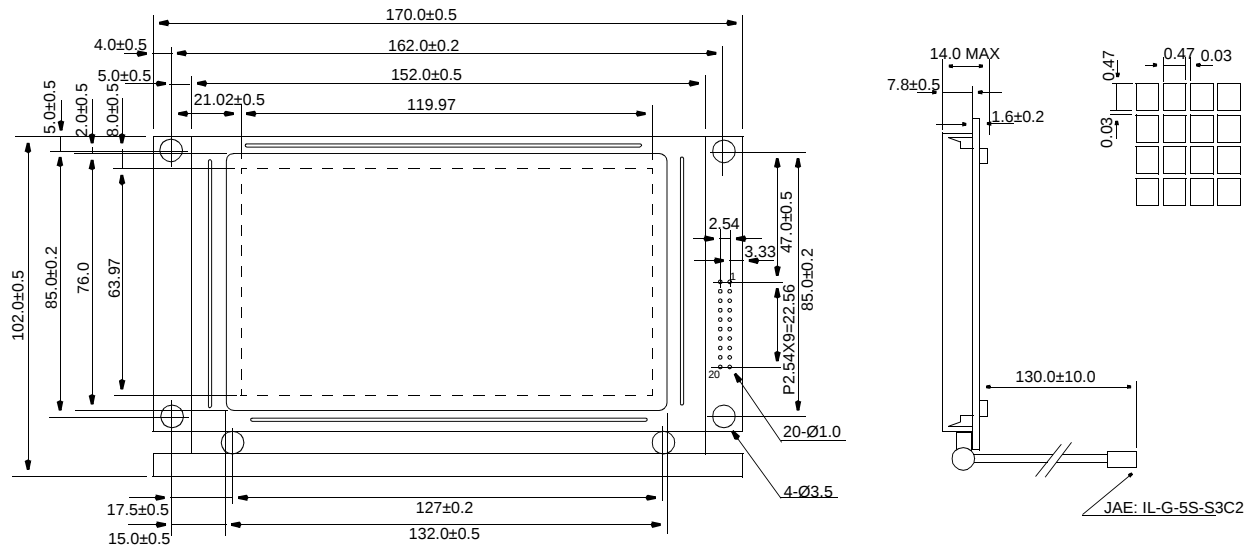


HDM128GS24Y-1

Dimensional Drawing

240 X 128 Dots Graphic, CCFL Backlight



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	V_{FL}	0	1500	Vrms
CCFL INPUT CURRENT	I_{FL}	-	10.0	mA rms
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	-	-	V _{rms}
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

AMEYA360

Components Supply Platform

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