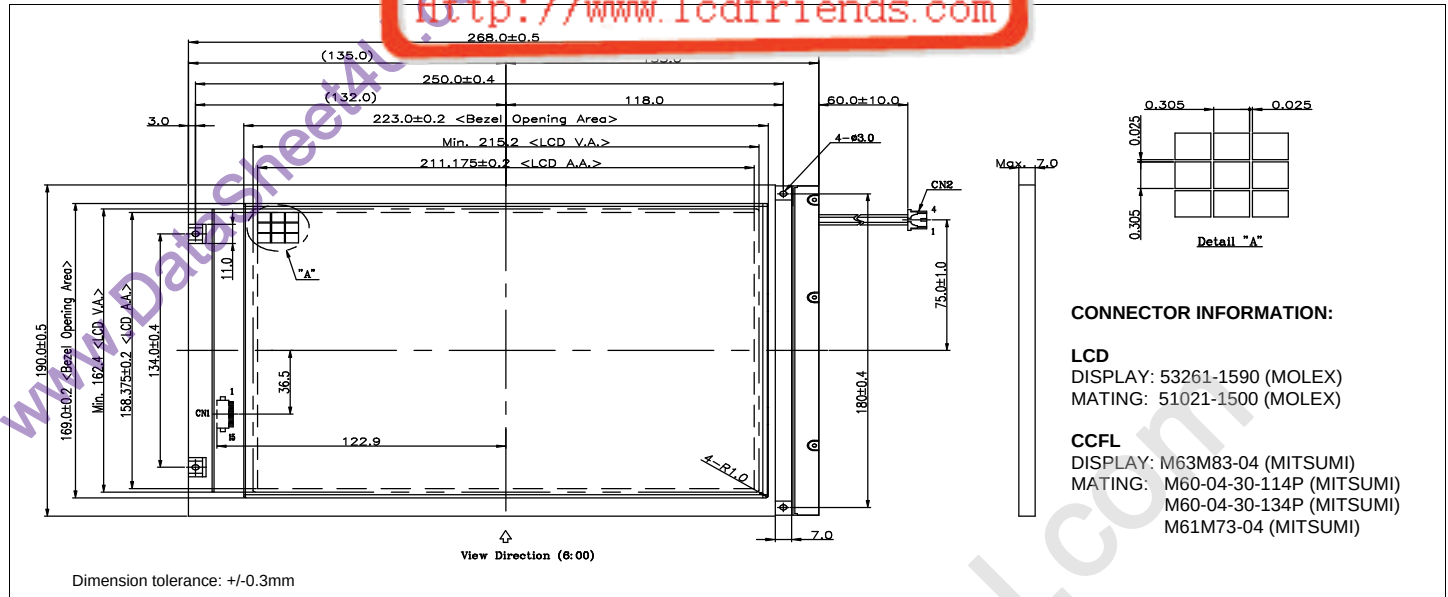


HDM6448-A

Dimensional Drawing

液晶之友 电话: 020-33819057
http://www.lcdfriends.com

340 X 480 10.4" VGA Monochrome



CONNECTOR INFORMATION:

LCD
DISPLAY: 53261-1590 (MOLEX)
MATING: 51021-1500 (MOLEX)

CCFL
DISPLAY: M63M83-04 (MITSUMI)
MATING: M60-04-30-114P (MITSUMI)
M60-04-30-134P (MITSUMI)
M61M73-04 (MITSUMI)

Features

Backlight.....CCFL
Options.....Black and White FSTN, Bottom View
Normal/ Extended Temperature
Built-in Controller.....None

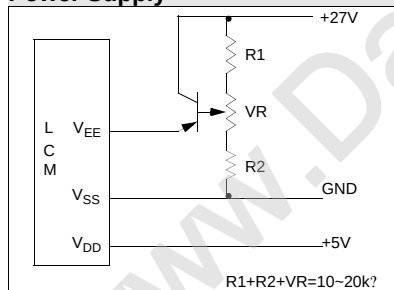
Physical Data

Module Size.....268.0W x 190.0H x 7.0T mm
Viewing Area Size.....215.2W x 162.4H mm
Dot Pitch.....0.33W x 0.33H mm
Dot Size.....0.305W x 0.305H mm
Weight.....426.5g

Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	$V_{DD}-V_{SS}$	-0.3	6.5	V
SUPPLY VOLTAGE FOR LCD	$V_{EE}-V_{SS}$	0	27.0	V
INPUT VOLTAGE	V_{IN}	-0.3	$V_{DD}+0.3$	V
OPERATING TEMPERATURE	T_{OP}	0	50	$^{\circ}\text{C}$
STORAGE TEMPERATURE	T_{STG}	-20	70	$^{\circ}\text{C}$
HUMIDITY (NO CONDENSATION)	-	10	85	%RH

Power Supply



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

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
SUPPLY VOLTAGE	V_{DD}	-	4.5	5.0	5.5	V
	$V_{EE}-V_{SS}$	-	22.7	23.0	23.3	V
POWER SUPPLY CURRENT	I_{DD}	$V_{DD}=5.0V$	-	4.8	7.2	mA
	I_{EE}	$V_{EE}-V_{SS}=23.0V$	-	10.1	15	mA
INPUT HIGH VOLTAGE	V_{IH}	-	$.8V_{DD}$	-	V_{DD}	V
INPUT LOW VOLTAGE	V_{IL}	-	0	-	$.2V_{DD}$	V
CCFL OP. VOLTAGE	V_{FL}	$I_{FL}=5\text{mA}$	-	461	-	Vrms
CCFL OP. CURRENT	I_{FL}	$V_{FL}=360V$	-	5	-	mA
CCFL START VOLTAGE	V_{FLS}	-	-	-	860	Vrms
CCFL FREQUENCY	f_{FL}	-	-	-	-	kHz
DRIVE METHOD	1/240 DUTY					

Pin Connections

PIN NO.	SYMBOL	LEVEL	FUNCTION
DATA CONNECTOR			
1	FP	H	First Line Marker
2	LP	H/L	Data Latch
3	SCP	H/L	Shift clock
4	DISPOFF	H/L	H=On, L=Off
5	V_{DD}	5V	Power supply for logic
6	V_{SS}	0V	Ground
7	V_{EE}	-	Operating voltage for LC
8	UD0	H/L	Upper screen data input
9	UD1	H/L	Upper screen data input
10	UD2	H/L	Upper screen data input
11	UD3	H/L	Upper screen data input
12	LD0	H/L	Lower screen data input
13	LD1	H/L	Lower screen data input
14	LD2	H/L	Lower screen data input
15	LD3	H/L	Lower screen data input
CCFL CONNECTOR			
1	V_{FLG}	-	Ground
2	NC	-	No Connection
3	NC	-	No Connection
4	V_{FL}	-	Power supply for CCFL