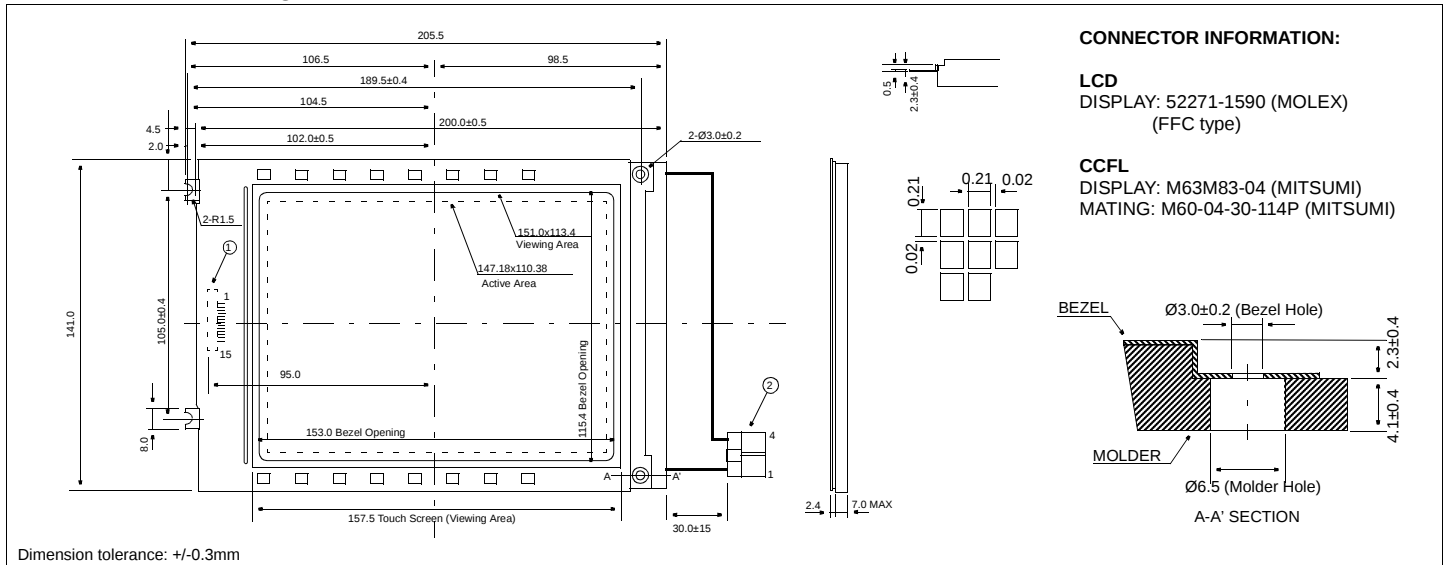


HDM6448-S

Dimensional Drawing

640 X 480 7.4" VGA Monochrome



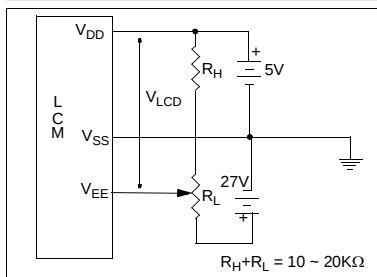
Features

Backlight.....CCFL
Options.....Black and White FSTN
Built-in Controller.....None

Physical Data

Module Size.....205.5W x 141.0H x 7.0T mm
Viewing Area Size.....151.0W x 113.4H mm
Dot Pitch.....0.23W x 0.23H mm
Dot Size.....0.21W x 0.21H mm

Power Supply



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

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
SUPPLY VOLTAGE	V _{DD}	-	4.75	5.0	5.25	V
	V _{EE}	V _{EE} - V _{SS}	21.3	22.7	23.1	V
POWER SUPPLY CURRENT	I _{DD}	V _{DD} = 5.0V		2.0	4.0	mA
	I _{EE}	V _{EE} = +22.7V		6.8	13.0	mA
INPUT HIGH VOLTAGE	V _{IH}	-	4.5	-	V _{DD}	V
INPUT LOW VOLTAGE	V _{IL}	-	0.3	-	0.5	V
CCFL OR VOLTAGE	V _{FL}	I _{FL} = 5mArms	200	350	600	Vrms
CCFL OR CURRENT	I _{FL}	V _{FL} = 350V	4.0	5.0	6.0	mA
CCFL START VOLTAGE	V _{FLS}	-	600	-	-	Vrms
CCFL FREQUENCY	f _{FL}	-	-	35	-	kHz
FRAME FREQUENCY	f _{FP}	-	65	72	80	Hz
DRIVE METHOD	1/240 DUTY					

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	
INPUT VOLTAGE	V _{IN}	-0.3	V _{DD} + 0.3	V
OPERATING TEMPERATURE	T _{OP}	0	50	°C
STORAGE TEMPERATURE	T _{STG}	-20	70	°C
HUMIDITY (NO CONDENSATION)	-	10	85	%RH

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 _{FL}	-	Power supply for CCFL
2	NC	-	No Connection
3	NC	-	No Connection
4	V _{FLG}	-	Ground

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