HDM6448ATSC

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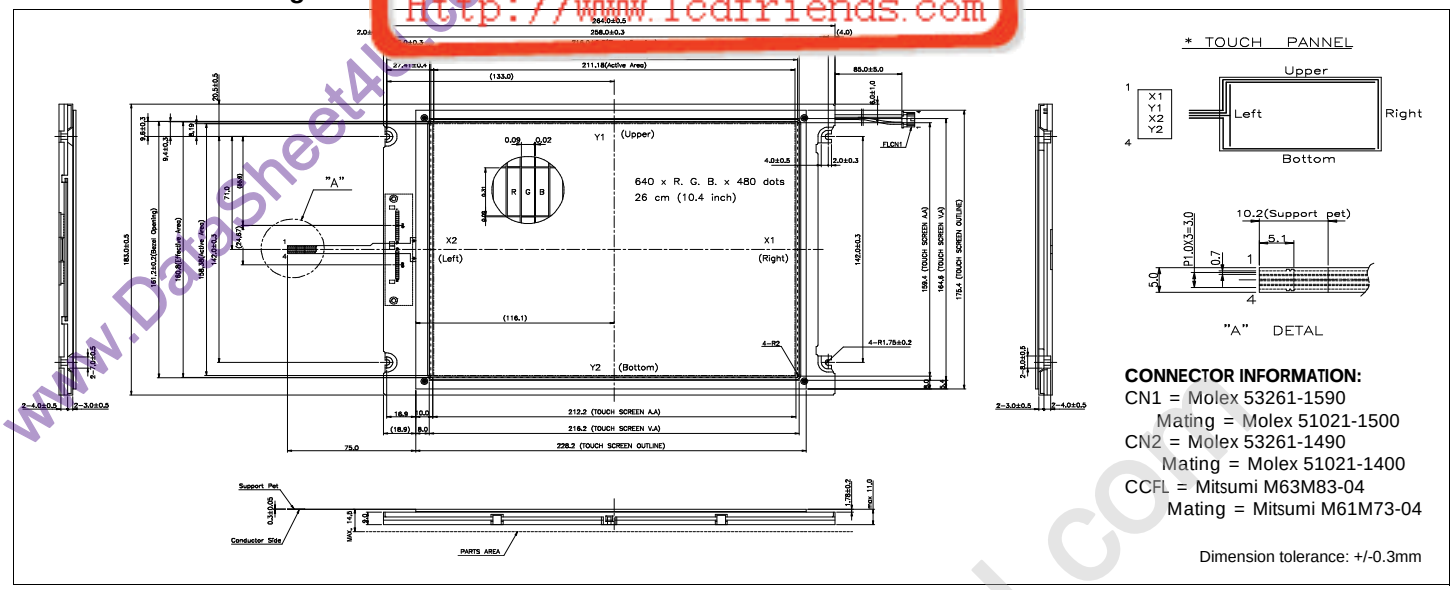
640 X 480 10.4” VGA Color w/Touch Screen

Dimensional Drawing



Features

Backlight.....CCFL
Options.....Color DSTN
Built-in Controller.....None

Physical Data

Module Size.....264.0W x 183.0H x 12.0T mm
Viewing Area Size.....216.0W x 161.5H mm
Dot Pitch.....0.33W x 0.33H mm
Dot Size.....0.31W x 0.31H mm
Weight.....490g

Electrical Characteristics (VDD=3.0 or 5.0±0.25V, Ta=25°C)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
SUPPLY VOLTAGE	V_{DD}	Ta=25°C	2.7 4.5	3.0 5.0	3.3 5.5	V
	V_{EE}		22.6	23.0	23.4	V
POWER SUPPLY CURRENT	I_{DD}	V_{DD}=5.0V V_{EE}=23.0V	-	33.0	40.0	mA
	I_{EE}		-	12.0	18.0	mA
CCFL OP. VOLTAGE	V_{FL}			640		Vrms
CCFL OP. CURRENT	I_{FL}		3.0	5.0	7.0	mArms
CCFL START VOLTAGE	V_{FLS}	Ta=25°C	-	750	1500	Vrms
BRIGHTNESS	L	I_{FL}=5.0mA		88		NIT
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	25.0	V
OPERATING TEMPERATURE	T_{OP}	0	50	°C
STORAGE TEMPERATURE	T_{STG}	-20	70	°C
HUMIDITY (NO CONDENSATION)	-	10	85	%RH

Touch Panel Connector

PIN NO.	SYMBOL	FUNCTION	PIN NO.	SYMBOL	FUNCTION
1	X1	RIGHT	3	X2	LEFT
2	Y1	UP	4	Y2	DOWN

Pin Connections

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	FP	H	First Line Marker
2	N/C	-	No connection
3	DISP	H/L	H=On, L=Off
4	LP	H/L	Data latch signal
5	V_{SS}	0V	Ground
6	SCP	H/L	Shift clock
7	V_{SS}	0V	Ground
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	UD4	H/L	Upper screen data input
13	UD5	H/L	Upper screen data input
14	UD6	H/L	Upper screen data input
15	UD7	H/L	Upper screen data input

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	LD0	H/L	Lower screen data input
2	LD1	H/L	Lower screen data input
3	LD2	H/L	Lower screen data input
4	LD3	H/L	Lower screen data input
5	LD4	H/L	Lower screen data input
6	LD5	H/L	Lower screen data input
7	LD6	H/L	Lower screen data input
8	LD7	H/L	Lower screen data input
9	V_{DD}	+5V	Power supply for logic
10	V_{SS}	0V	Ground
11	V_{SS}	0V	Ground
12	V_{EE}		Contrast control
13	V_{EE}		Contrast control
14	V_{EE}		Contrast control

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	V_{FLG}	-	Ground
2	NC	-	No Connection
3	NC	-	No Connection
4	V_{FL}	-	Power supply for CCFL

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