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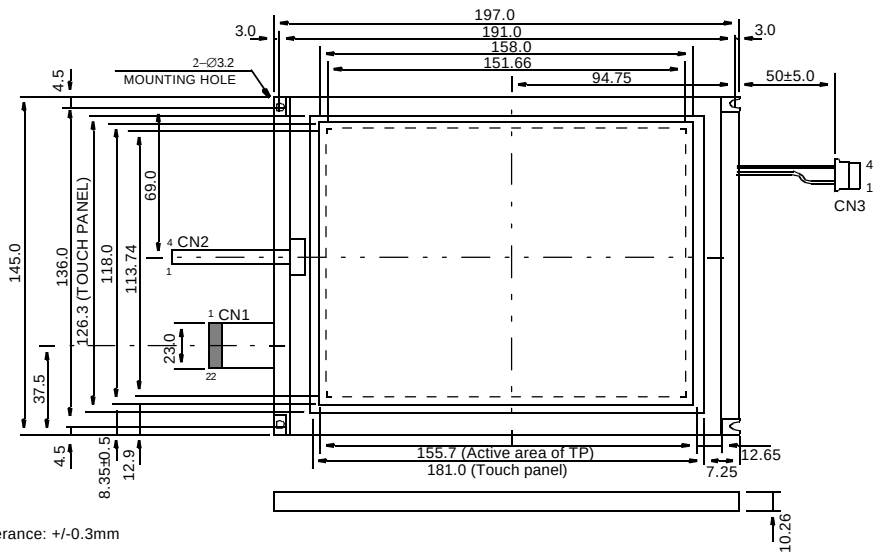
HDM6448ATSC-7

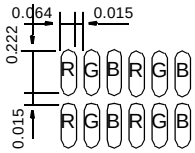
640 X 480 7.5” Single Scan VGA Color w/Touch Screen

Dimensional Drawing



CONNECTOR INFORMATION:
CN1 = Flat Flex Cable 1.0mm Pitch
Mating = IL-402-22S-S1L-SA (JAE)
CN2 = Flat Flex Cable 1.0mm Pitch

CN3 = Mitsumi M63M83-04
Mating = Mitsumi M61M73-04



Dimension tolerance: +/-0.3mm

Features

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

Physical Data

Module Size.....197.0W x 145.0H x 10.26T mm
Viewing Area Size.....158.0W x 118.0H mm
Dot Pitch.....0.079W x 0.237H mm
Dot Size.....0.064W x 0.222H mm
Weight.....400g

Electrical Characteristics (VDD=3.3±0.25V 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}	Ta=25°C	36.1	36.5	36.9	V
POWER SUPPLY CURRENT	I_{DD}	V_{DD}=3.3V	-	16.0	24.0	mA
	I_{EE}	V_{EE}=36.5V	-	8.0	12.0	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}=4mArms	-	450	-	Vrms
CCFL OP. CURRENT	I_{FL}	V_{FL}=520V	3.0	4.0	5.0	mArms
CCFL START VOLTAGE	V_{FLS}	Ta=25°C	-	800	1500	Vrms
BRIGHTNESS		V_{FL} = 4.0mA	-	65	-	NIT
DRIVE METHOD	1/240 DUTY					

Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	V_{DD}-V_{SS}	-0.3	7.0	V
SUPPLY VOLTAGE FOR LCD	V_{EE}-V_{SS}	0	42.0	V
CCFL OPERATING VOLTAGE	V_{FL}	-	1500	Vrms
CCFL OPERATING CURRENT	I_{FL}	-	7.0	mArms
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
1	FLM	H	First Line Marker
2	V_{SS}	-	Ground
3	CL1	H/L	Data latch signal
4	V_{SS}	-	Ground
5	CL2	H/L	Data Shift clock
6	V_{SS}	-	Ground
7	D0	H/L	Display data
8	D1	H/L	
9	D2	H/L	
10	D3	H/L	
11	D4	H/L	
12	D5	H/L	
13	D6	H/L	
14	D7	H/L	
15	DISP	H/L	H=Display on, L=Display off
16	V_{DD}	-	Power supply for logic
17	V_{DD}	-	Power supply for logic
18	V_{SS}	-	Ground
19	V_{EE}	-	Power supply for LCD
20	V_{SS}	-	Ground
21	TS1	-	Temperature Sensor pin 1
22	TS2	-	Temperature Sensor pin 2

Touch Screen Connector

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	-	-	Right
2	-	-	Bottom
3	-	-	Left
4	-	-	Top

CCFL Connector

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