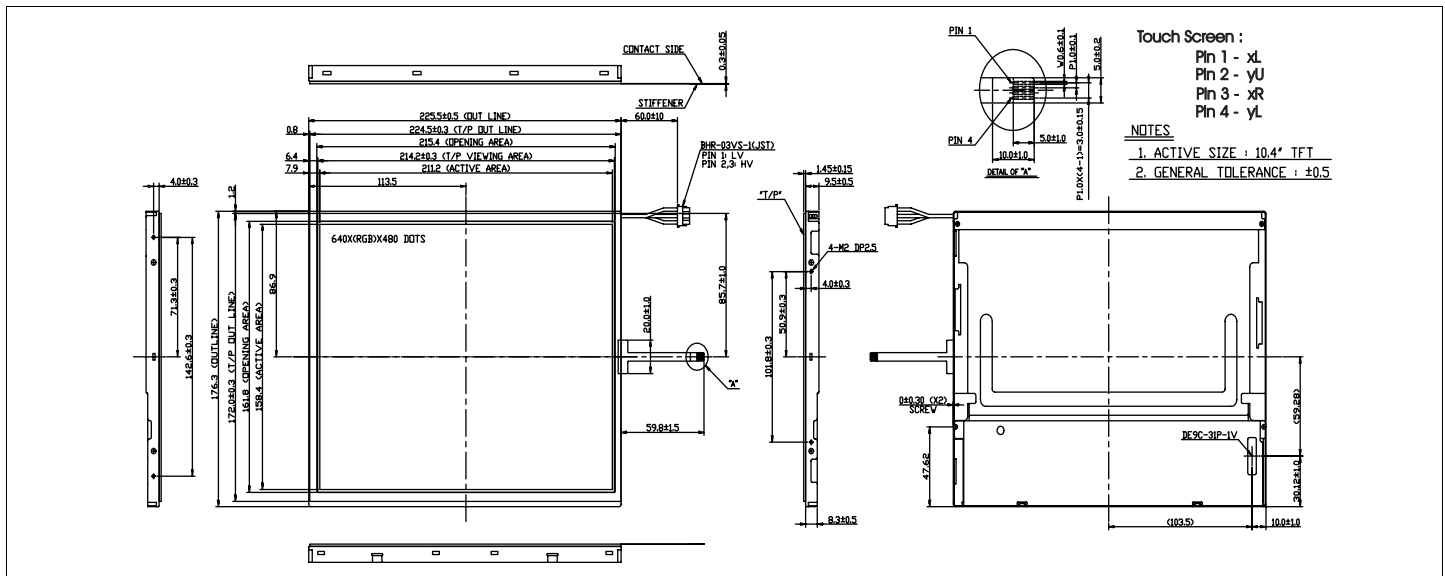


HDA1040V

Dimensional Drawing

10.4" ,640 X480 VGA (TFT) Color Graphics ,CCFL Backlight



Features

Viewing Angle(horizontal).....88 degrees
 High Contrast.....1500:1
 Fast Response Time.(Tr/Tf).....9/14 msec
 Built-in DC-DC Converter
 Built-in Controller.....none
 Touch screenoptional

Physical Data

Module Size.....225.5W x176.3H x9.5 T mm
 Viewing Area Size.....212.2W x158.4 H mm
 Dot Pitch.....0.33W x 0.33H mm
 Weight.....470g

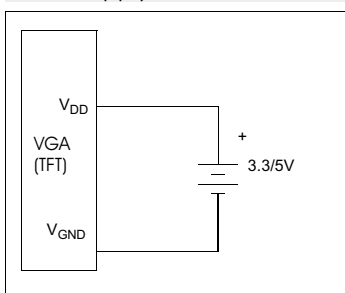
Electrical Characteristics (VDD=3.3±0.16V 25°C)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
OPERATING VOLTAGE	V_{DD}	-	3.0	3.3/5	5.25	V
OPERATING VOLTAGE	V_{CCFL}	-	440	490	540	V
INPUT HIGH VOLTAGE	V_{IH}	-	$0.7 \cdot V_{DD}$	-	V_{DD}	V
INPUT LOW VOLTAGE	V_{IL}	-	0	-	$0.3 \cdot V_{DD}$	V
OPERATING CURRENT	I_{DD}	$V = 5V$	-	150	-	mA
OPERATING CURRENT CCFL	I_{CCFL}	490 Vrms	2	5.5	6	mArms
POWER CONSUMPTION	P_D	-	-	1.95	-	W
BRIGHTNESS	L	Average	-	450	-	NIT

Pin Connections

PIN NO.	SYMBOL	FUNCTION
1	GND	Ground Pin
2	DCK	Data Sampling Clock
3	HS	Horizontal Sync.
4	VS	Vertical Sync.
5	GND	Ground Pin
6	R0	Red Data Signal (LSB)
7	R1	Red Data Signal
8	R2	Red Data Signal
9	R3	Red Data Signal
10	R4	Red Data Signal
11	R5	Red Data Signal (MSB)
12	GND	Ground Pin
13	G0	Green Data Signal (LSB)
14	G1	Green Data Signal
15	G2	Green Data Signal
16	G3	Green Data Signal
17	G4	Green Data Signal
18	G5	Green Data Signal (MSB)
19	GND	Ground Pin
20	B0	Blue Data Signal (LSB)
21	B1	Blue Data Signal
22	B2	Blue Data Signal
23	B3	Blue Data Signal
24	B4	Blue Data Signal
25	B5	Blue Data Signal
26	GND	Ground Pin
27	DE	Data Enable
28	VDD	Power Supply
29	VDD	Power Supply
30	NC	No Connect
31	DPSR	Scan Direction Select

Power Supply



Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	V_{DD}	-0.3	6	V
INPUT VOLTAGE	V_{IN}	-0.3	$V_{DD} + 0.3$	V
OPERATING TEMPERATURE	T_{OP}	-10	+70	°C
STORAGE TEMPERATURE	T_{STG}	-20	+80	°C