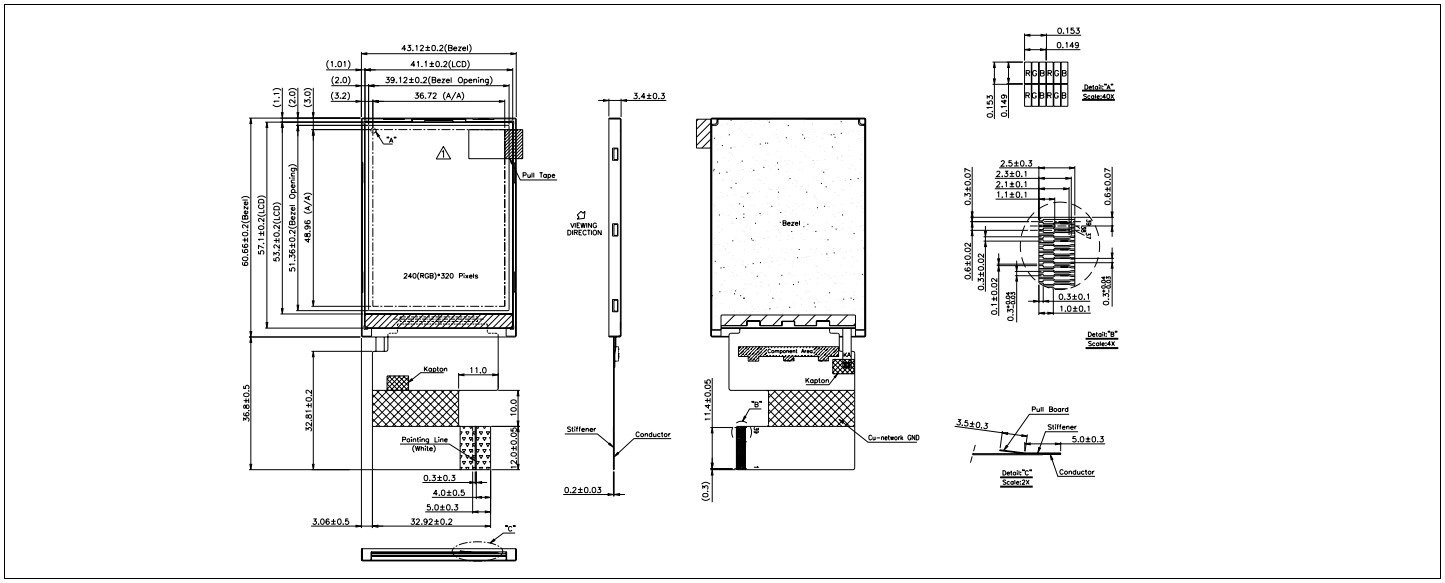
HDA240C

Dimensional Drawing

2.4" ,240 X 320 (TFT), Color Graphics ,LED(White) Backlight



Features

Viewing AngleU/D/R/L).....60/45/60/60 degrees
High Contrast.....300:1
Fast Response Time .....25 mS
Built-in DC-DC Converter
Built-in Controller.....HX8347A

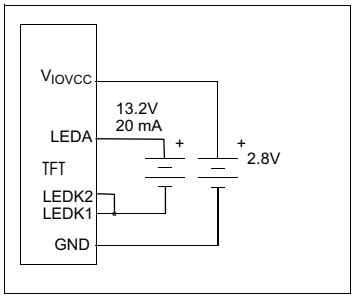
Physical Data

Module Size.....43.12W x97.46H x3.4T mm
Active Area Size.....36.72W x48.96 H mm
Pitch Size.....0.153W x 0.153H mm
Weight.....14.9g

Electrical Characteristics (VDD=2.8±0.090V 25°C)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
OPERATING VOLTAGE	V_{IOVCC}	-	-	2.8	-	V
INPUT HIGH VOLTAGE	V_{IH}	-	0.8V_{CC}	-	V_{CC}	V
INPUT LOW VOLTAGE	V_{IL}		-0.3	-	0.2V	V
OPERATING CURRENT	I_{IOVCC}		-	6	8.5	mA
LED FORWARD VOLTAGE	V_F	at If = 20 mA	-	13.2	-	V
LED FORWARD CURRENT	I_F	at Vf = 13.2V	-	20	-	mA
BRIGHTNESS	L	Average	280	350	-	cd/m^2

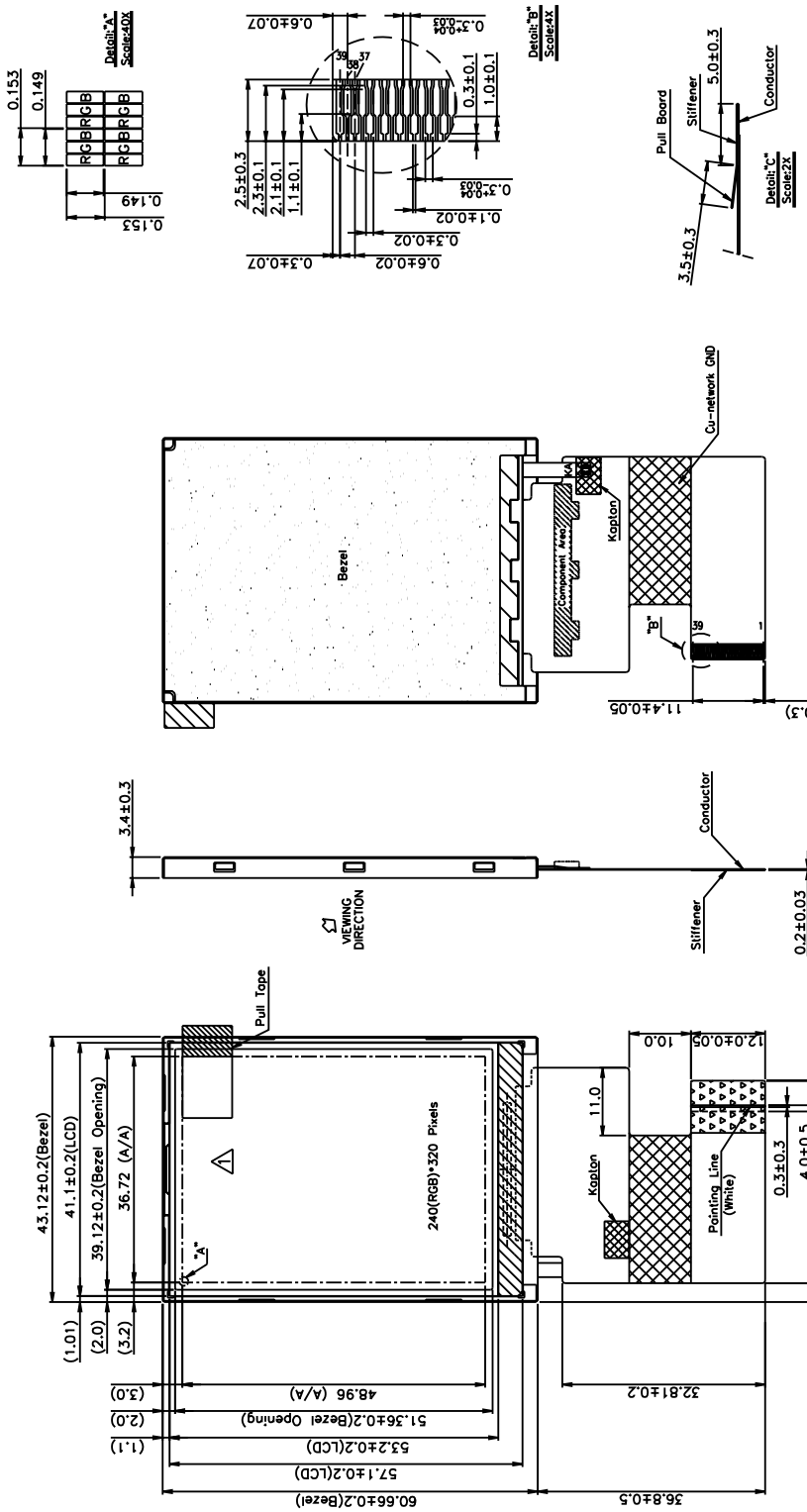
Power Supply



Pin Connections

PIN NO.	SYMBOL	FUNCTION	
1	NC	-	No Connection
2	NC	-	No Connection
3	NC	-	No Connection
4	NC	-	No Connection
5	nRESET	L	Reset Input
6	VSYNC	L	Vertical Sync
7	HSYNC	L	Horizontal Sync
8	DOTCLK	H/L	Dot Clock for RGB Mode
9	ENABLE	L	Data Enable for RGB Mode
10-27	Db17-0	H/L	Bi-directional Data BUS (16,18 Bit wide)
28	SD0	H/L	SPI Interface Data Output
29	SDI	H/LI	SPI Interface Data Input
30	NC	-	No Connection
31	SCL	H/L	Parameter/ Command Select
32	NC	-	No Connection
33	nCS	L	Chip Select Input
34	GND	I	Ground
35	IOVCC	-	Iinterface Supply Voltage
36-37	GND	I	Ground
38	LED-	I	LED Cathode
39	LED+	I	LED Anode

Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
SUPPLY VOLTAGE	V_{IOCC}	-0.3	4.6	V
BACKLIGHT FORWARD CURRENT	I_{FI}	~	TBD	mA
INPUT VOLTAGE	V_{IN}	-0.3	V_{CC}	V
OPERATING TEMPERATURE	T_{OP}	-20	70	°C
STORAGE TEMPERATURE	T_{STG}	-30	80	°C

Dimensional Outlines