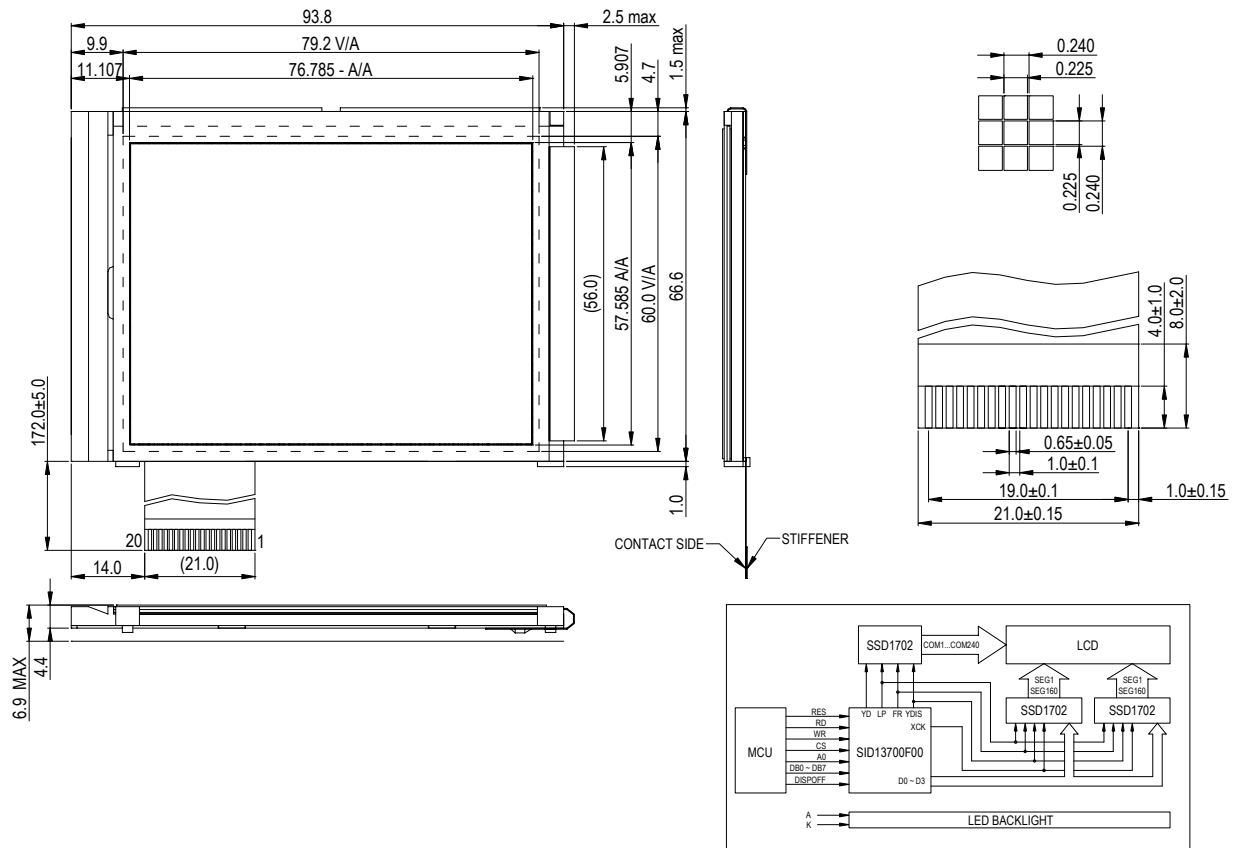




STANDARD GRAPHICS MODULES

G2432x21 OUTLINE DIMENSION AND BLOCK DIAGRAM



The tolerance unless classified ± 0.3 mm

PIN ASSIGNMENT		
Pin No.	Symbol	Function
1	VSS	Ground Terminal
2	VDD	Supply Terminal
3	NC	No Connection
4	A0	Select Display Data / Instruction
5	/WR	Write Signal
6	/RD	Read Signal
7	DB0	Data Bus Line
8	DB1	Data Bus Line
9	DB2	Data Bus Line
10	DB3	Data Bus Line
11	DB4	Data Bus Line
12	DB5	Data Bus Line
13	DB6	Data Bus Line
14	DB7	Data Bus Line
15	/CS	Chip Select
16	/RES	Reset Signal
17	VEE	Positive Supply Voltage
18	VADJ	LCD Contrast Adjust
19	SLA	Led Backlight Power Supply
20	SLK	Led Backlight Ground

- NOTE :
1. ALL BACKLIGHT : SIDE LED BACKLIGHT
 2. DEFAULT IS 8080 MODE
 3. OTHER OPTION : INTERNAL VEE

ABSOLUTE MAXIMUM RATING					
Item	Symbol	Conditions	Min.	Max.	Unit
Power Supply Voltage	Vdd-Vss	-	-0.3	8.0	V
Input Voltage	Vin	-	Vss	Vdd	V
OPERATING TEMPERATURE	Topr	Normal	-10	+60	°C
STORAGE TEMPERATURE	Tstg	Normal	-20	+70	°C

ELECTRICAL CHARACTERISTIC (Vdd = + 5v, Ta = 25°C)						
Item	Symbol	Conditions	Min.	Typ.	Max.	Unit
Logic Supply Voltage	Vdd	-	4.5	5.0	5.5	V
"H" Input Voltage	V _{ih}	-	3.5	-	Vdd	V
"L" Input Voltage	V _{il}	-	0	-	1.0	V
"H" Output Voltage	V _{oh}	-	Vdd - 0.4	-	-	V
"L" Output Voltage	V _{ol}	-	-	-	0.4	V
Module Supply Current	I _{dd}	-	-	20	25	mA
LCD Driving Voltage	V _{lcd}	Vdd-Vo	21.4	22.5	23.6	V

BACKLIGHT OPTION						
LED COLOR	OPTION	CONDITION	FORWARD CURRENT (mA)			
			MIN	TYP	MAX	
GREEN	NO	-	-	-	-	
WHITE	YES	V _{led} = 5.0 V R _{led} = 10.0 ohm	-	80	100	
BLUE	YES	-	-	-	-	
AMBER	NO	-	-	-	-	
RED	NO	-	-	-	-	
EL	NO	-	-	-	-	

CCT reserves the right to vary or make changes to the specifications of the module in this brochure at any time without prior notice. CCT further assumes no responsibility for its use, nor for any infringements of patents, pending applications or the rights of thirds parties as a result of its use.