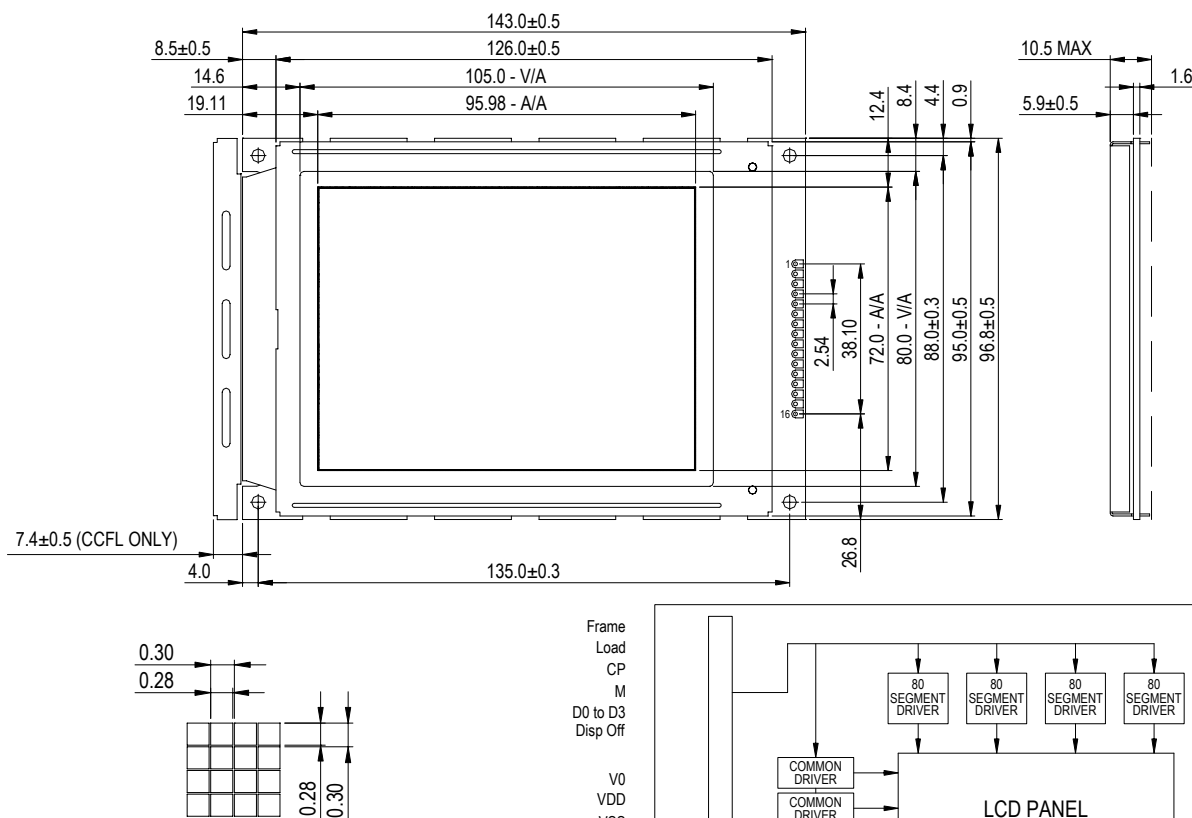




STANDARD GRAPHICS MODULES

G2432X03..... OUTLINE DIMENSION AND BLOCK DIAGRAM



The tolerance unless classified ± 0.3 mm

PIN ASSIGNMENT		
NO	SYMBOL	FUNCTION
1	FR	FRAME SIGNAL
2	LOAD	DATA LATCH
3	CP	X - DRIVER SHIFT CLOCK
4	M	LCD DRIVE OUTPUT AC SIGNAL
5	Vo	LCD CONTRAST ADJUST
6	VDD	SUPPLY TERMINAL
7	VSS	GROUND TERMINAL
8	VEE	NEGATIVE SUPPLY VOLTAGE
9	D0	DATA BUS LINE
10	D1	DATA BUS LINE
11	D2	DATA BUS LINE
12	D3	DATA BUS LINE
13	DISP OFF	DISPLAY OFF
14	FG	FRAME GROUND
15	A	BACKLIGHT POWER SUPPLY
16	K	BACKLIGHT GROUND

NOTE :

1. BACKLIGHT - : SIDE LED BACKLIGHT
2. OTHER OPTION - INTERNAL VEE

ABSOLUTE MAXIMUM RATING					
Item	Symbol	Conditions	Min.	Max.	Unit
Power Supply Voltage	Vdd-Vss	-	-0.3	7.0	V
Input Voltage	Vin	-	-0.3	Vdd+0.3	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	5.5	V
"H" Input Voltage	V _{ih}	-	0.7Vdd	-	Vdd	V
"L" Input Voltage	V _{il}	-	0	-	0.3Vdd	V
"H" Output Voltage	V _{oh}	-	Vdd - 0.4	-	Vdd	V
"L" Output Voltage	V _{ol}	-	0	-	+0.4	V
Module Supply Current	Idd	-	-	20.0	50	mA
LCD Driving Voltage	V _{lcd}	Vdd-Vo	21.9	23.0	24.1	V

BACKLIGHT OPTION

LED COLOR	OPTION	CONDITION	FORWARD CURRENT (mA)		
			MIN	TYP	MAX
WHITE	YES	V _{led} = 5.0V R _{led} = 5.0 ohm	-	140	150
BLUE	NO	-	-	-	-
AMBER	NO	-	-	-	-
RED	NO	-	-	-	-
YELLOW GREEN	NO	-	-	-	-
CCFL	YES	-	-	5.0 - AC	-
EL	NO	-	-	-	-

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