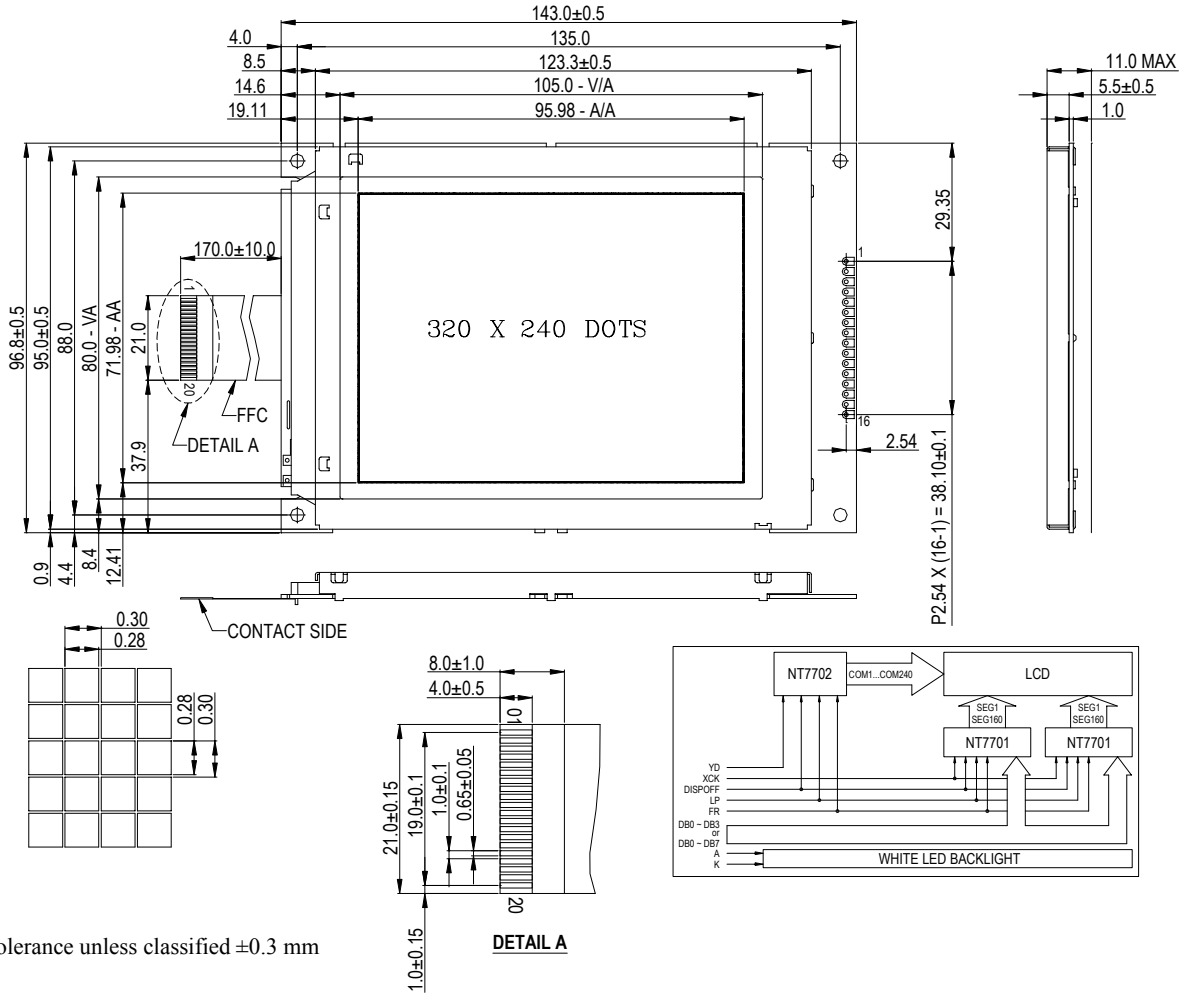




# STANDARD GRAPHICS MODULES

## G2432X10..... OUTLINE DIMENSION AND BLOCK DIAGRAM



The tolerance unless classified ±0.3 mm

PIN ASSIGNMENT		
NO	SYMBOL	FUNCTION
1	FRAME	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	POSITIVE 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 (Logic)	Vdd-Vss	-	0	7.0	V
Input Voltage (LCD Driver)	Vee - Vss	-	-	26	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 <sub>ih</sub>	-	0.7Vdd	-	Vdd	V
"L" Input Voltage	V <sub>il</sub>	-	0	-	0.3Vdd	V
Module Supply Current	I <sub>dd</sub>	-	-	20.0	50.0	mA
LCD Driving Voltage	V <sub>co</sub>	V <sub>o</sub> - V <sub>ss</sub>	21.4	22.5	23.6	V

BACKLIGHT OPTION					
LED COLOR	OPTION	CONDITION	FORWARD CURRENT ( mA )		
			MIN	TYP	MAX
WHITE	YES	V <sub>led</sub> = 5.0V R <sub>led</sub> = 10.0 ohm	-	86	150
BLUE	NO	-	-	-	-
AMBER	NO	-	-	-	-
RED	NO	-	-	-	-
YELLOW GREEN	NO	-	-	-	-
CCFL	YES	-	-	5.0 - AC	-
EL	NO	-	-	-	-

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