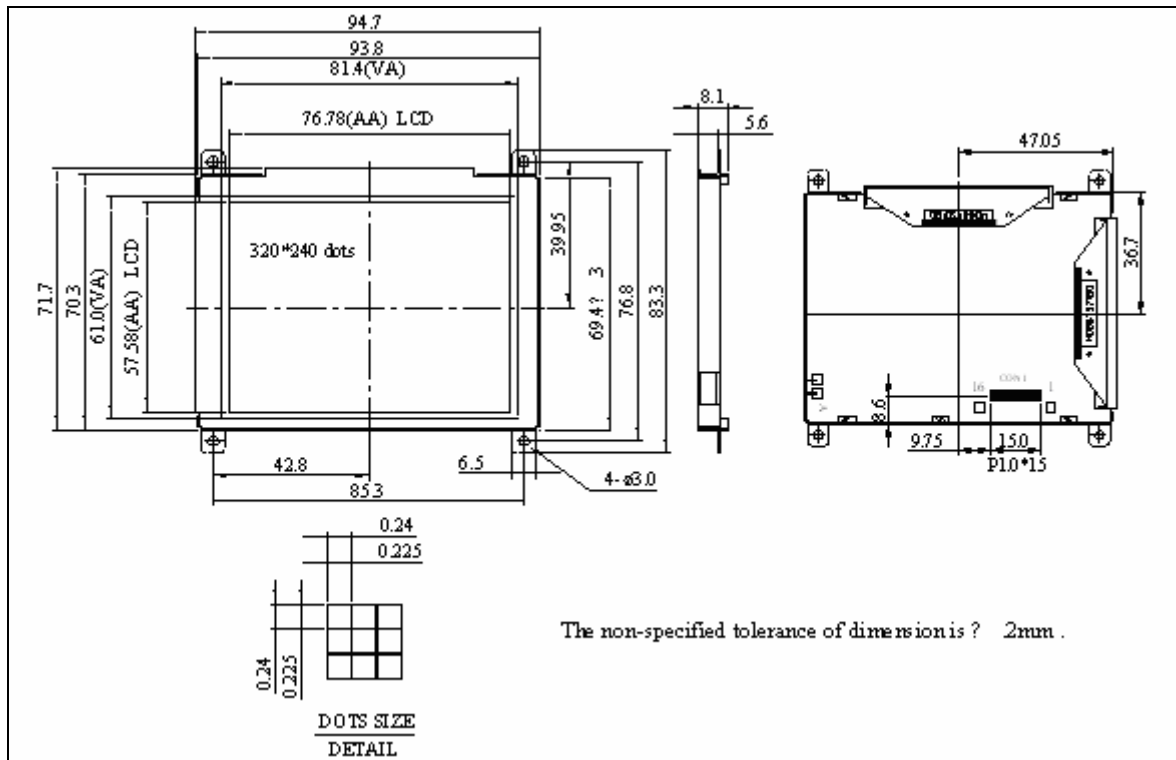


HGT320240F

1/240DUTY 1/16BIAS



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	CP	H-L	Data shift pulse
2	LP	H-L	Data latch pulse
3	FLM	H/L	Scan start-up signal
4	M	H/L	Control signal for AC driving
5	D0	H/L	Data bus line
6	D1	H/L	
7	D2	H/L	
8	D3	H/L	
9	V ₀	-	Driving voltage for LCD
10	V _{DD}	3.3V	Power supply for Logic
11	V _{SS}	0V	Ground
12	NC	-	No connection
13	K	0V	Power supply for LED backlight
14	A	3.5V	
15	/DISP	H/L	H: Display on L: Display off
16	V _{EE}	-	Positive Voltage output

NOTES:

- No controller

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	94.7X83.3X8.1	mm
Viewing Area (W x H)	81.4X61.0	mm
Dot Pitch (W x H)	0.24X0.24	mm
Dot Size (W x H)	0.225X0.225	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	V _{DD} -V _{SS}	0	3.6	V
Supply Voltage (LCD)	V ₀ -V _{SS}	0	28	V
Input Voltage	V _I	0	V _{DD}	V
Operating Temp.	T _{OPR}	-20	+70	
Storage Temp.	T _{STG}	-30	+80	

ELECTRICAL CHARACTERISTICS (V_{DD}=3.5V, Ta=25)

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	0.8V _{DD}	-	V _{DD}	V
Input Low Voltage	V _{IL}	0	-	0.2V _{DD}	V
Output High Voltage	V _{OH}	V _{DD} -0.4	-	V _{DD}	V
Output Low Voltage	V _{OL}	0	-	0.4	V
Supply Current	I _{DD}	-	1.3	-	mA
LCD Driving Voltage	V ₀ -V _{SS}	-	18.7	-	V

LED BACKLIGHT SPECIFICATIONS (Ta=25)

Item	Forward Voltage	Forward Current
White	3.5V	120mA