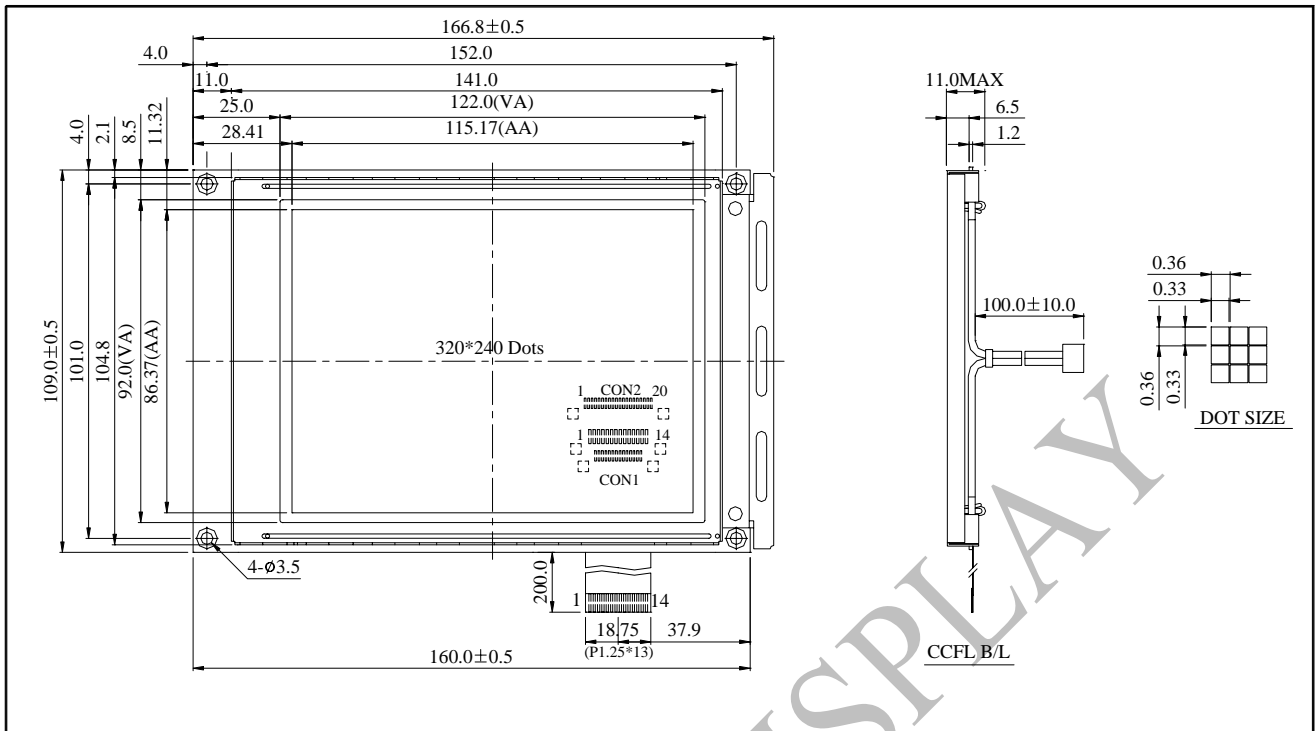


HG3202406

1/240DUTY 1/16BIAS



PIN CONNECTIONS

Pin	Symbol	Level	Function	
1	D0	H/L	Data bus line	
4	D3			
5	/DISPOFF			H: Display ON L: Display OFF
6	FLM			Scan start-up signal
7	M	H/L	Control signal for AC driving	
8	LP (CL1)	H-L	Data latch pulse	
9	CP (CL2)	H-L	Data shift pulse	
10	V _{DD}	5.0V	Power supply for Logic	
11	V _{SS}	0V	Ground	
12	V _{EE}	-	Negative voltage output	
13	V _O	-	Driving voltage for LCD	
14	FGND	-	Frame Ground	

NOTES:

- No controller 2.Touch panel optional
- For LED version, the outline dimension is 160.0X109.0mm

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	166.8X109.0X11.0	mm
Viewing Area (W x H)	122.0X92.0	mm
Dot Pitch (W x H)	0.36X0.36	mm
Dot Size (W x H)	0.33X0.33	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	V _{DD} -V _{SS}	0	6.5	V
Supply Voltage (LCD)	V _{DD} -V _O	0	32	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}=5.0V, Ta=25)

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	0.8 V _{DD}	-	V _{DD}	V
Input Low Voltage	V _{IL}	-0.3	-	0.2V _{DD}	V
Supply Current	I _{DD}	-	7.5	-	mA
LCD Driving Voltage	V _{DD} -V _O	-	23.0	-	V

LED BACKLIGHT SPECIFICATIONS (Ta=25)

Item	Forward Voltage	Forward Current
White	3.1V	180mA

CCFL BACKLIGHT SPECIFICATIONS (Ta=25)

Item	Symbol	Standard Value
Driving Current	IFLD	5.0mA (AC=300V)