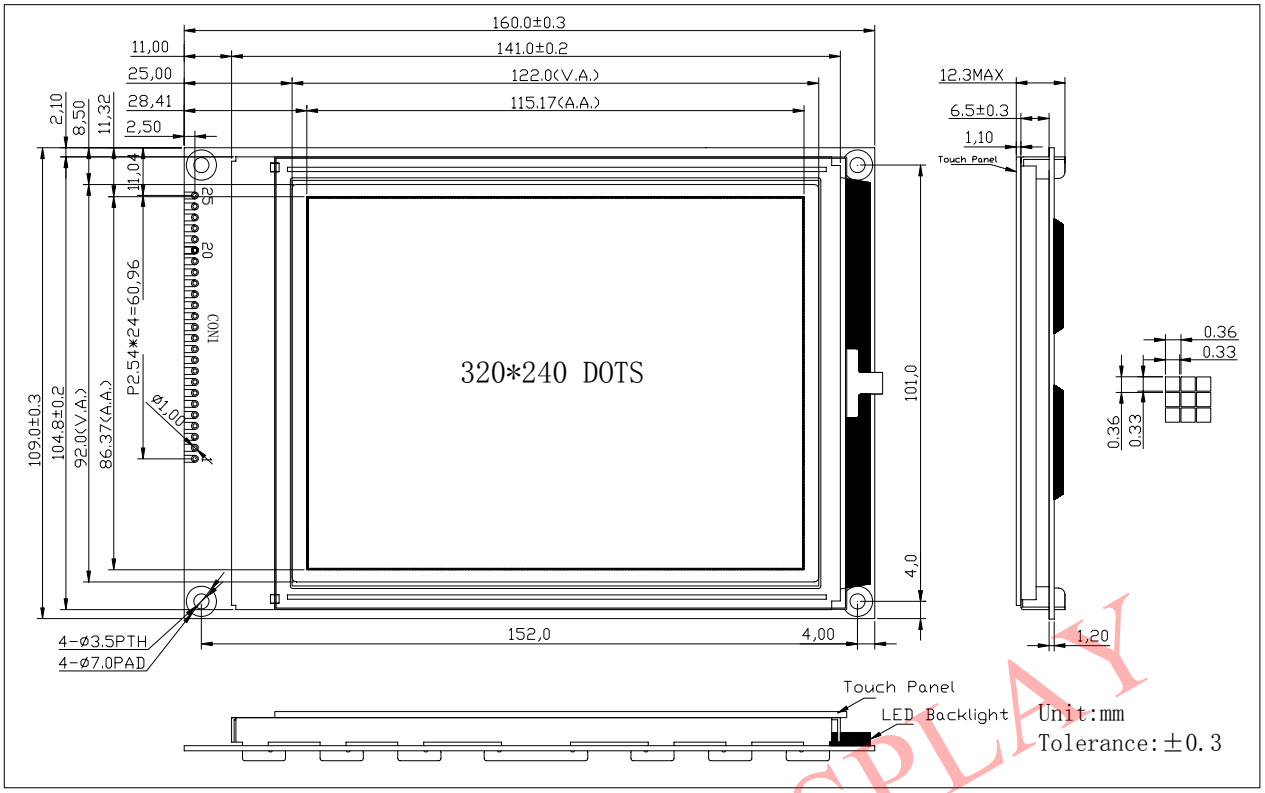
HG32024015V1 1/240DUTY 1/17BIAS



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V_{SS}	0V	Ground
2	V_{DD}	+5V	Power supply for Logic
3	V_O	-	Driving voltage for LCD
4	/WR	L	8080：Write signal
5	/RD	L	8080：Read signal
6	/CS	L	Chip select, active “L”
7	A0	H/L	L: Data H: Instruction code
8	/RES	L	Reset signal, active “L”
9~16	DB0 ~DB7	H/L	Data bus line
17	NC	-	No connection
18	V_{EE}	-	Negative voltage output
19	LEDA	+5V	Power supply for LED backlight
20	LEDK	0V	
21	SK	H/L	Touch panel serial clock input
22	DO	H/L	Touch panel serial data output
23	DI	H/L	Touch panel serial data input
24	TCS	H/L	Touch panel chip select
25	INT	H/L	Touch panel interrupt signal

NOTES:

1. Built-in controller(RA8835)
2. Parallel(8080-Serials) interface
3. 5V/3.3V power supply optional
4. Built-in Touch panel

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size（W x H x T）	160.0X109.0X12.3	mm
Viewing Area (W x H)	122.0 X92.0	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	5.5	V
Supply Voltage(LCD)	V_{LCD}	0	28	V
Operating Temp	$T_{OPR.}$	-20	70	℃
Storage Temp	$T_{STG.}$	-30	80	℃

ELECTRICAL CHARACTERISTICS (V_{DD}=5.0V, Ta=25℃)

Item	Sym.	Min.	Typ.	Max.	Unit
Input High Voltage	V_{IH}	0.5 VDD	-	VDD	V
Input Low Voltage	V_{IL}	-	-	0.2VDD	V
Output High Voltage	V_{OH}	VDD-0.4	-	-	V
Output Low Voltage	V_{OL}	-	-	0.4	V
Supply Current	I_{DD}	-	50	-	mA

LED BACKLIGHT SPECIFICATION (Ta=25℃)

Item	Forward Voltage	Forward Current
White	3.0V	If=180 mA

TSINGTEK DISPLAY