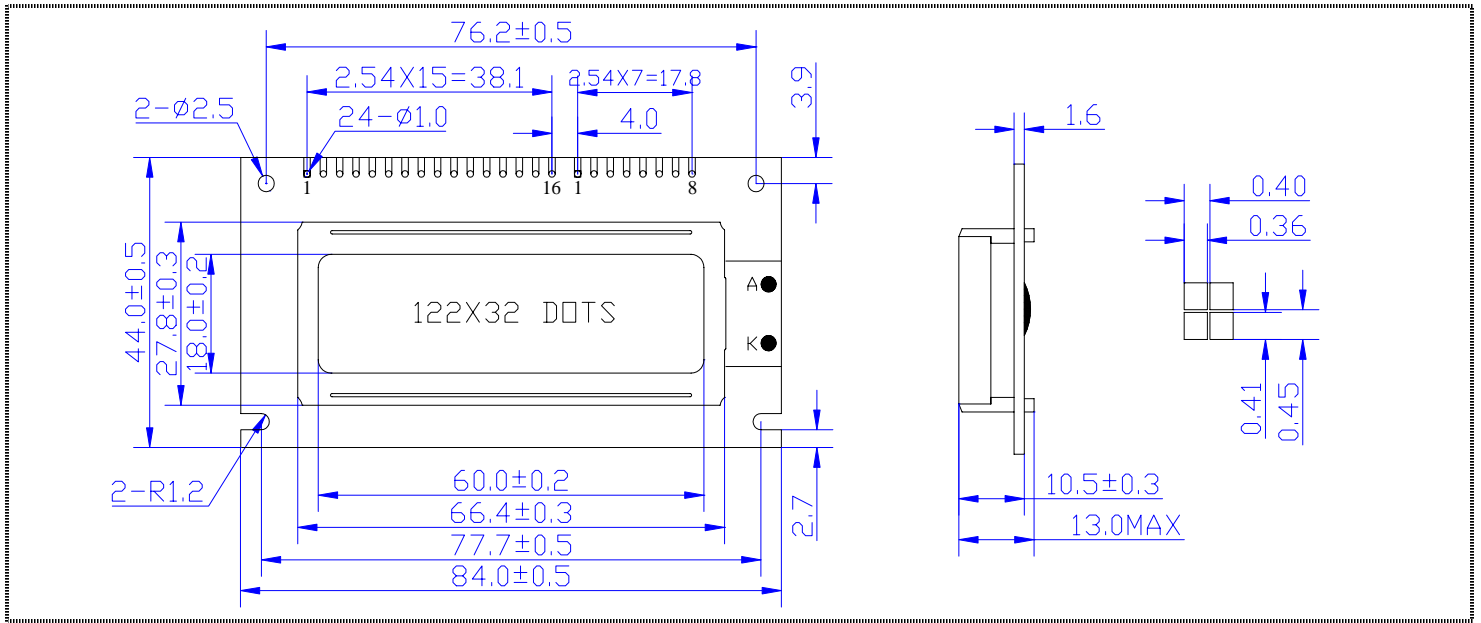


# HF12232F(Parallel)

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MECHANICAL DATA		
Item	Nominal Dimensions	Unit
Module Size(W×H×T)	84.0 × 44.0 × 13.0	mm
Viewing Area(W×H)	60.0 × 18.0	mm
Dot Pitch(W×H)	0.40 × 0.45	mm
Dot Size(W×H)	0.36 × 0.41	mm

PIN CONNECTIONS			
PIN	Symbol	Level	Function
1	VSS	—	GND(0V)
2	VDD	—	Supply Voltage for Logic(+5V)
3	V0	—	Power supply for LCD
4	A0	H/L	H: Data ; L: Instruction Code (parallel)
5	R/W	H/L	H: Read ; L: Write (Parallel)
6	E	H/L	Enable Signal (Parallel)
7	DB0	H/L	Data Bus Line
8	DB1	H/L	
9	DB2	H/L	
10	DB3	H/L	
11	DB4	H/L	
12	DB5	H/L	
13	DB6	H/L	
14	DB7	H/L	
15	L+	—	Backlight Power(+5V)
16	L-	—	Backlight Power(0V)

ABSOLUTE MAXIMUM RATINGS					
Item	Symbol	Min	Type	Max	Unit
Operating Voltage	VDD	4.5	5.0	5.5	V
Operating Current	IDD	4.8	6.0	7.5	mA
LED Voltage	V <sub>LED</sub>	4.5	5.0	5.5	V
LED Current	I <sub>LED</sub>	65	80	100	mA
Operating Temp.	Topr	-20	—	+70	
Storage Temp.	Tsto	-30	—	+80	

ELECTRICAL CHARACTERISTICS					
Item	Symbol	Min	Type	Max	Unit
Input Hight Voltage	V <sub>IH</sub>	0.7VDD	—	VDD	V
Input Low Voltage	V <sub>IL</sub>	0	—	0.6	V
Output Hight Voltage	V <sub>OH</sub>	0.8VDD	—	VDD	V
Output Low Voltage	V <sub>OL</sub>	0	—	0.4	V

J2 : Connect Upper(VDD) is Parallel  
 Connect Under(VSS) is Serial  
 Supply Voltage for Logic is 3V by customer

