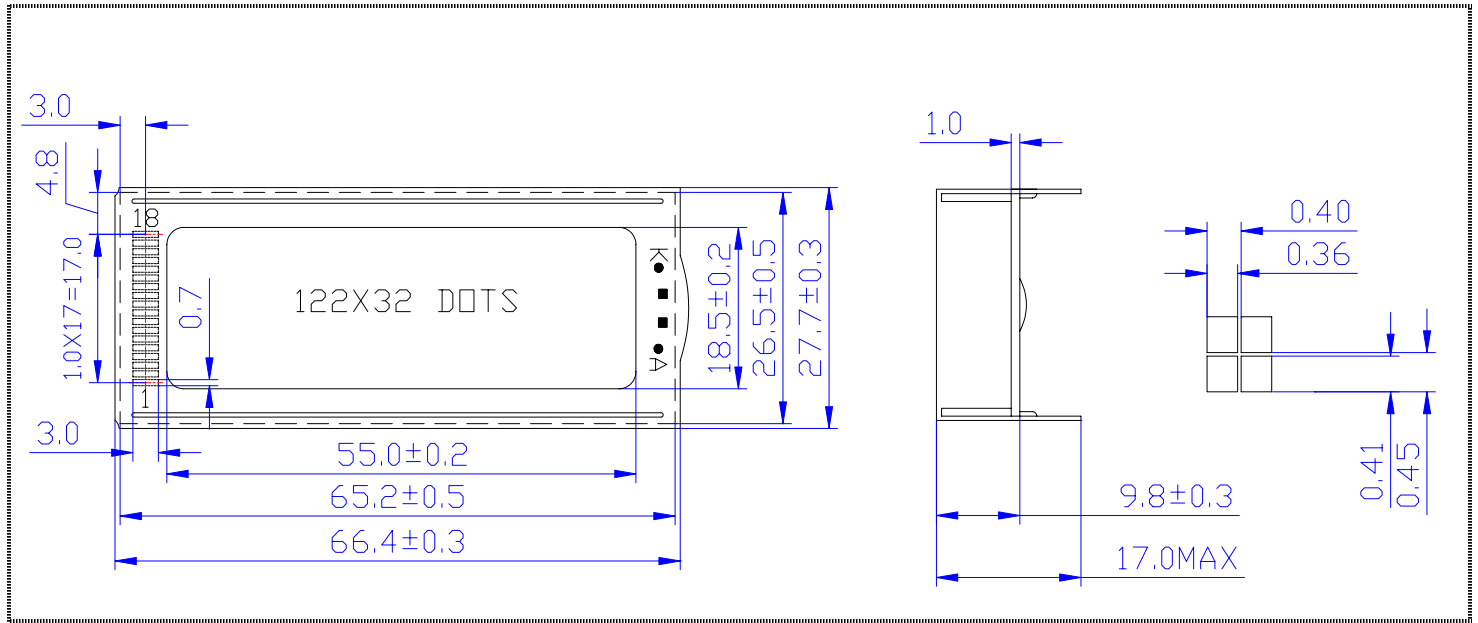


HF12232-4

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MECHANICAL DATA		
Item	Nominal Dimensions	Unit
Module Size(W×H×T)	66.4 × 27.7 × 17.0	mm
Viewing Area(W×H)	55.0 × 18.5	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	VDD	—	Supply Voltage for Logic(+5V)
2	VSS	—	GND(0V)
3	VLCD	—	Power Supply for LCD
4	RET	L	Reset Signal (Active LOW)
5	E1	H/L	Read/Write Enable Signal(Slave)
6	E2	H/L	Read/Write Enable Signal(Master)
7	R/W	H/L	H: Read; L: Write
8	A0	H/L	H: Data ; L: Instruction Code
9	D0	H/L	Data Bus Line
10	D1	H/L	
11	D2	H/L	
12	D3	H/L	
13	D4	H/L	
14	D5	H/L	
15	D6	H/L	
16	D7	H/L	
17	—	—	NO Connect
18	—	—	NO Connect

ABSOLUTE MAXIMUM RATINGS					
Item	Symbol	Min	Type	Max	Unit
Operating Voltage	VDD	4.5	5.0	5.5	V
Operating Current	IDD	0.09	0.12	0.15	mA
LED Voltage	V _{LED}	4.0	4.1	4.2	V
LED Current	I _{LED}	75	96	128	mA
Operating Temp.	T _{opr}	-20	—	+70	
Storage Temp.	T _{sto}	-30	—	+80	

ELECTRICAL CHARACTERISTICS					
Item	Symbol	Min	Type	Max	Unit
Input Hight Voltage	V _{IH}	2.0	—	VDD	V
Input Low Voltage	V _{IL}	0	—	0.8	V
Output Hight Voltage	V _{OH}	2.4	—	VDD	V
Output Low Voltage	V _{OL}	0	—	0.4	V

