

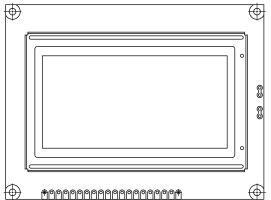


Dot Pitch

Mounting Hole

Character Size

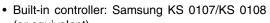
128 x 64 Graphic LCD



FEATURES

• Type: Graphic



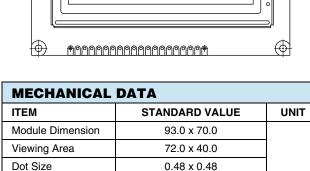


(or equivalent)
• Duty cycle: 1/64

+ 5 V power supply

• N.V. built-in

• Compliant to RoHS directive 2002/95/EC



0.52 x 0.52

88.0 x 65.0

N/a

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN	UNIT			
IIEW	STWIDOL	MIN.	TYP.	MAX.	UNIT	
Power Supply	V_{DD} to V_{SS}	4.75	5.0	5.25	V	
Input Voltage	VI	- 0.3	i	V_{DD}	V	

Note

 mm

• $V_{SS} = 0 \text{ V}, V_{DD} = 5.0 \text{ V}$

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	STANDARD VALUE			LINUT	
IIEW	STINIBUL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Input Voltage	V_{DD}	L level	0.7 V _{DD}	-	V_{DD}	V I	
	V _{IO}	H level	0	-	0.3 V _{DD}		
Supply Current	I _{DD}	V _{DD} = + 5 V	-	2.5	7.5	mA	
Recommended LC Driving	V_{DD} to V_0	- 20 °C	9.9	10.4	10.9		
		0 °C	9.7	10.2	10.7	V	
Voltage for Normal Temperature		25 °C	8.9	9.4	9.9		
Version Module		50 °C	8.6	9.1	9.6		
		70 °C	8.4	8.9	9.4		
LED Forward Voltage	V _F	25 °C	-	4.2	4.6	V	
LED Forward Current - Array	,	25 °C	-	330	660	mA	
LED Forward Current - Edge	⊢ I _F	25 0	-	120	240		
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	=	5.0	mA	

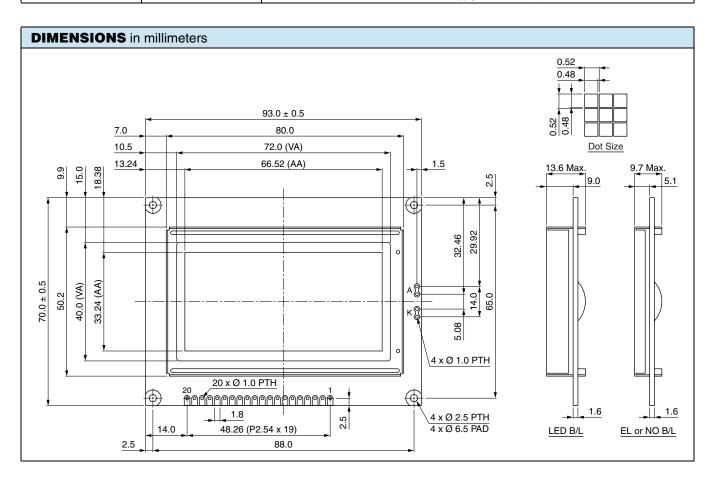
OPTION	OPTIONS								
	PROCESS COLOR					BACKLIGHT			
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
	х	Х	х	Х		Х	х	х	

For detailed information, please see the "Product Numbering System" document.

128 x 64 Graphic LCD



INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V _{SS}	Ground			
2	V _{DD}	Power supply (+ 5 V)			
3	V ₀	Contrast adjustment			
4	D/I	Data/instruction			
5	R/W	Data read/write			
6	E	$H \rightarrow L$ enable signal			
7	DB0	Data bus line			
8	DB1	Data bus line			
9	DB2	Data bus line			
10	DB3	Data bus line			
11	DB4	Data bus line			
12	DB5	Data bus line			
13	DB6	Data bus line			
14	DB7	Data bus line			
15	CS1	Chip select for IC1			
16	CS2	Chip select for IC1			
17	RST	Reset			
18	V _{EE}	Negative voltage output			
19	A	Power supply for LED (+ 4.2 V), $R_A = 0 \Omega$			
20	К	Power supply for LED (0 V)			





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