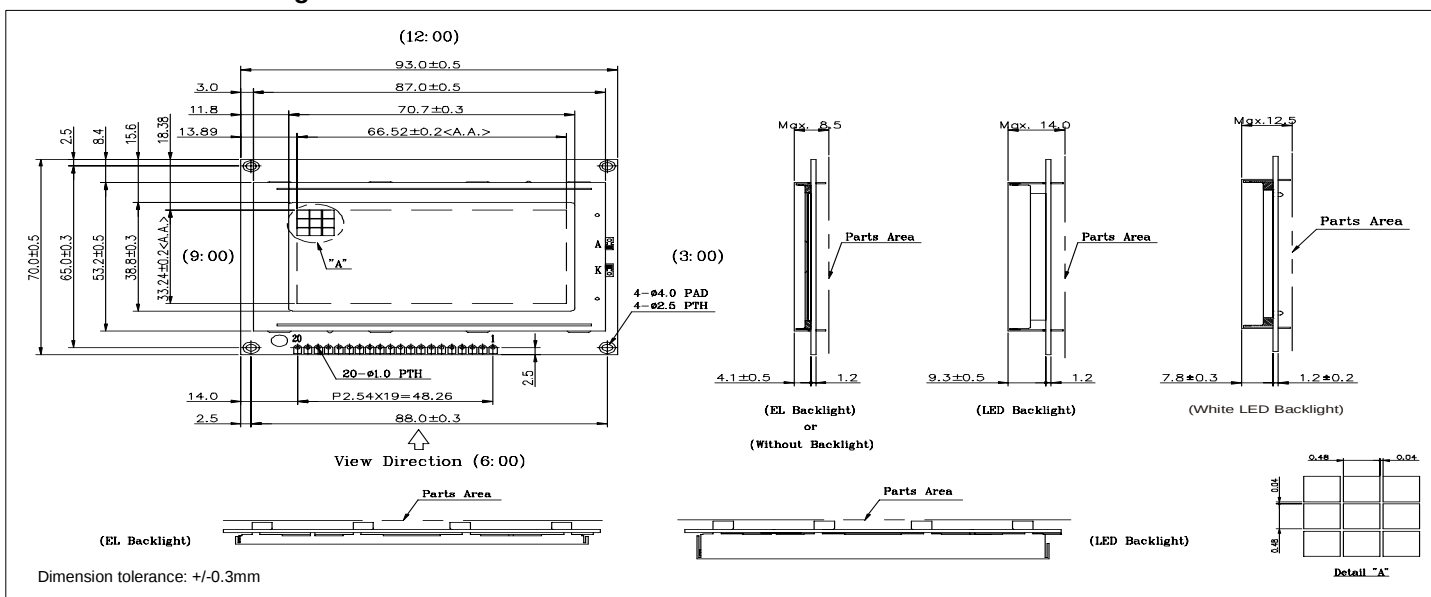


HDM64GS12

Dimensional Drawing

128 X 64 Dots Graphic



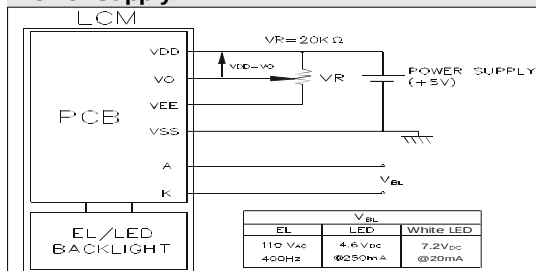
Features

Backlight.....(White) LED, EL or NONE optional
Options.....Gray or Yellow STN, Black & White FSTN
Normal/Extended Temperature
Bottom / Top Viewing
Built-in Controller.....Samsung KS108B

Physical Data

Module Size (LED Backlight).....	93.0W x 70.0H x 14.0T mm
(White LED Backlight).....	93.0W x 70.0H x 12.5T mm
(None or EL Backlight).....	93.0W x 70.0H x 8.5T mm
Viewing Area Size.....	70.7W x 38.8H mm
Dot Pitch.....	0.52W x 0.52H mm
Dot Size.....	0.48W x 0.48H mm
Weight.....	54.4g (None), 56.5g (EL), 76.5g (LED)

Power Supply



Absolute Maximum Ratings

PARAMETER	SYMBOL	MIN	MAX	UNIT
Supply Voltage	V_{DD-VSS}	0	7.0	V
Input Voltage	V_{IN}	-	7.0	V
Operating Temperature	T_{OP}	0	50	°C
Storage Temperature	T_{STG}	-20	70	°C
LED Peak Forward Current (White LED)	I_p		540	mA
			60	mA
EL Applied Voltage	V_L		150	V_{rms}
EL Applied Frequency	F_L		1000	Hz

Pin Connections

PIN NO.	SYMBOL	FUNCTION	
1	V _{SS}	0V	Ground
2	V _{DD}	5V	Power supply for logic
3	V _L	-	Operating voltage for LC
4	D/I	H/L	1=Data, 0=Instruction
5	R/W	H/L	1=Data read, 0=Data write
6	E	H/H->L	Enable
7	DB0	H/L	Data bus
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	CS1	H	Left Half Chip Select
16	CS2	H	Right Half Chip Select
17	RS	L	Reset
18	V _{EE}	Output	#
19	K	(-F TYPE)	LED Cathode
	A	(-S TYPE)	LED Anode (White LED, -F TYPE)
20	A	(-F TYPE)	LED Anode
	K	(-S TYPE)	LED Cathode (White LED, -F TYPE)

Has built-in inverter for negative power supply

Electrical Characteristics (VDD=5.0±0.25V 25°C)

PARAMETER	SYM	CONDITION	MIN	TYP	MAX	UNIT
Input High Voltage	V _{IH}	-	.7 V _{DD}	-	V _{DD}	V
Input Low Voltage	V _{IL}	-	-	-	.3 V _{DD}	V
Power Supply Voltage	V _{DD} -V _L	V _{DD} =5.0V	13.0 8.9	13.5 9.2	14.0 9.5	V
Power Supply Current	I _{DD}	V _{DD} =5.0V	-	1.9	2.9	mA
LED Forward Current (White LED)	I _F	V _F =4.6V	-	250	540	mA
		V _F =7.2V	-	20	30	mA
EL Current	I _L	-	-	5.0	8.0	mA _{rms}
EL Power Consumption	P _L	-	-	0.55	-	W
DRIVE METHOD	1/64 Duty					

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