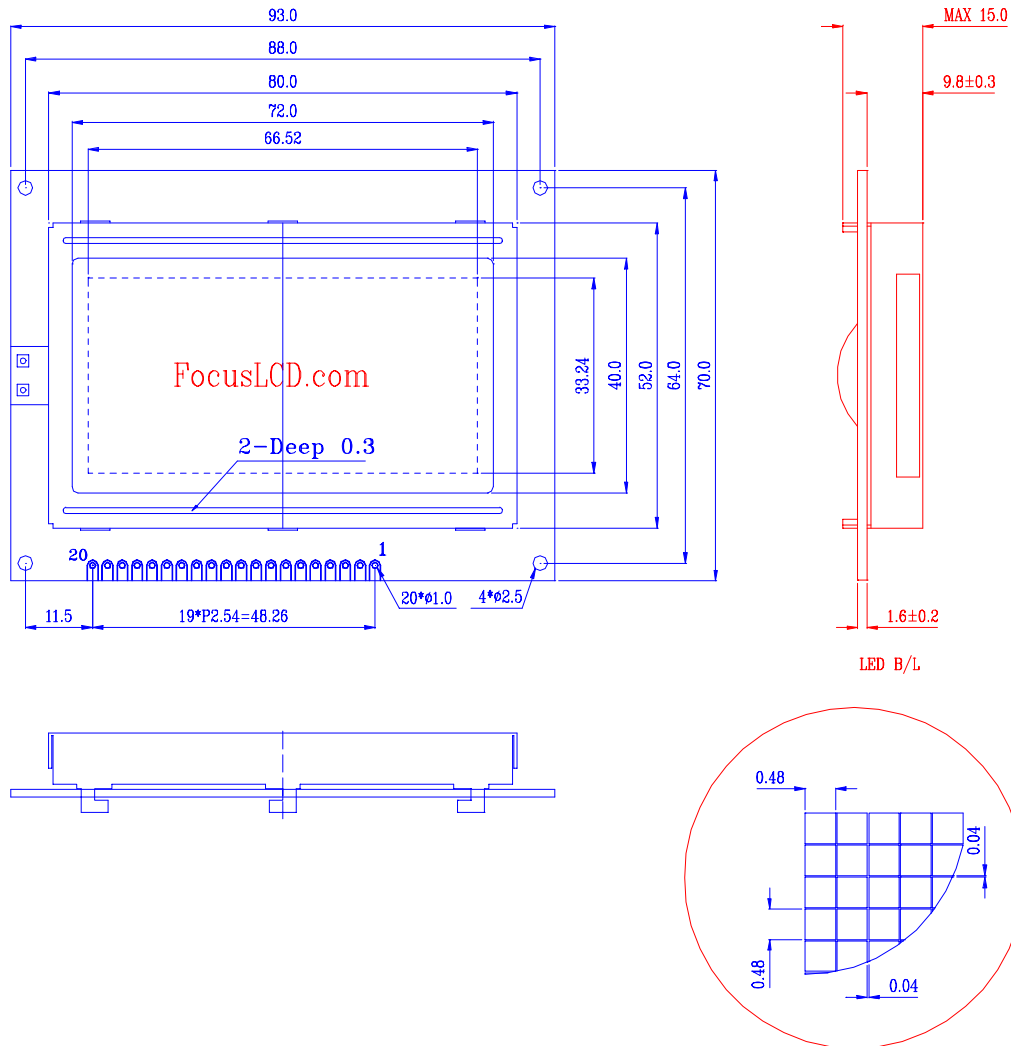


FOCUS DISPLAY SOLUTIONS

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FDS128x64(88x64)XBG



Feature:

1. 128x64 dots graphic LCD Module
2. Built-In controller (KS0108B)
3. 5.0V power supply
4. STN; 1/64 duty; LED BKL or EL BKL

Interface Pin Connections

NO	SYM	LEVEL	FUNCTION	NO	SYM	LEVEL	FUNCTION
1	V _{SS}	-	GND	11	DB ₄	H/L	DATA BIT 4
2	V _{DD}	-	5V	12	DB ₅	H/L	DATA BIT 5
3	V _O	-	CONTRAST ADJUSTMENT	13	DB ₆	H/L	DATA BIT 6
4	RS	H/L	REGISTER SELECT	14	DB ₇	H/L	DATA BIT 7
5	R/W	H/L	READ/WRITE	15	CS1	-	CHIP SELECT IC1
6	E	H/L	ENABLE SIGNAL	16	CS2	-	CHIP SELECT IC2
7	DB ₀	H/L	DATA BIT 0	17	RST	-	RESET SIGNAL
8	DB ₁	H/L	DATA BIT 1	18	VEE	-	(-) VOLTAGE OUTPUT
9	DB ₂	H/L	DATA BIT 2	19	A(+)	4.2V	BACKLIGHT
10	DB ₃	H/L	DATA BIT 3	20	K(-)	GND	BACKLIGHT

Absolute Maximum Rating

ITEM	SYMBOL	MIN	TYP	MAX	UNIT
POWER SUPPLY	V _{DD} -V _{SS}	-0.3	---	5.5	V
INPUT VOLTAGE	V _I	-0.3	---	V _{DD}	

Electrical Characteristics

ITEM	SYM	CONDITION	MIN	TYP	MAX	UNIT
INPUT VOLTAGE	V _{DD}	+ 5V	4.7	5.0	5.5	V
SUPPLY CURRENT	I _{DD}	V _{DD} = 5V	---	8	---	mA
RECOMMENDED LCD DRIVING VOLTAGE FOR NORMAL TEMPERATURE VERSION MODULE	V _{DD} -V _O	-20 C	---	---	---	V
		0 C	---	9.8	---	
		25 C	---	9.5	---	
		50 C	---	9.3	---	
		70 C	---	---	---	
LED FORWARD VOLTAGE	V _F	25 C	---	4.2	4.5	V
LED FORWARD CURRENT	I _F	25 C	---	360	---	mA
EL POWER SUPPLY CURRENT	I _{EL}	V _{EL} = 110V AC 400Hz	---	---	---	mA

Mechanical Data

ITEM	STANDARD	UNIT
MODULE DIMENSION	93.0 X 70.0	mm
VIEWING AREA	72.0 X 40.0	mm
DOT SIZE	0.48 X 0.48	mm
CHARACTER SIZE	0.52 X 0.52	mm