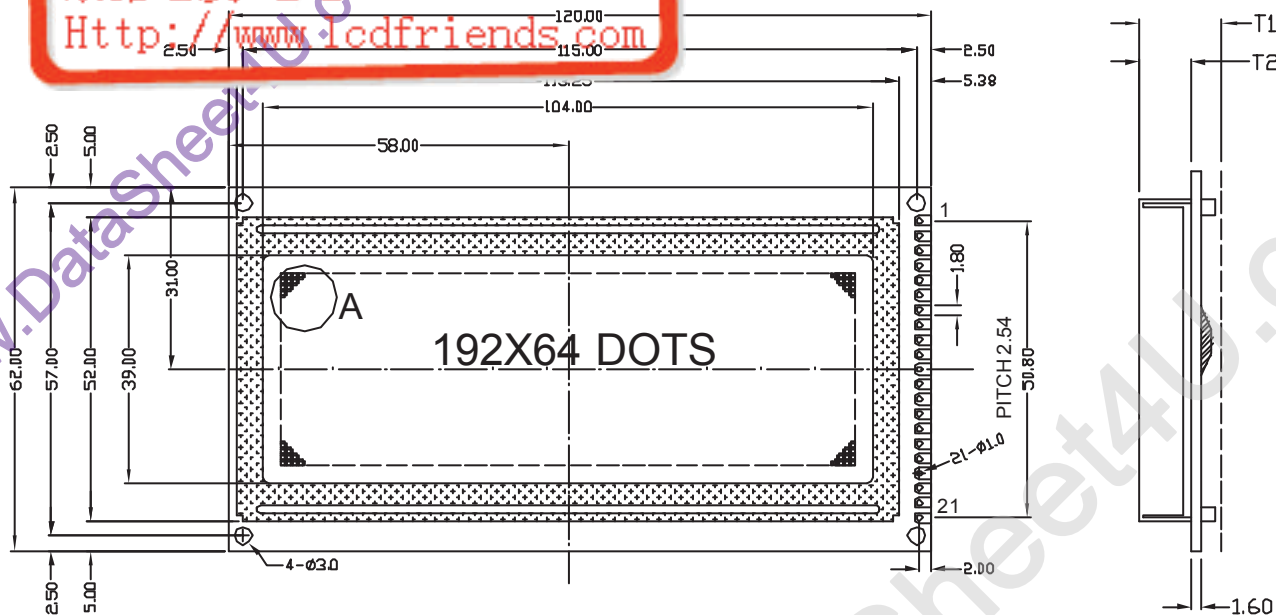


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REVISIONS

NO.	DATE	BY	DESCRIPTION
1	01/06/18	A.CH	NEW RELEASE

PINS ASSIGNMENT		
NO.	SYMBOL	DESCRIPTION
1	VSS	GROUND
2	VDD	POWER SUPPLY FOR LOGIC AND LCD
3	V0	OPERATING VOLTAGE FOR LCD
4	VEE	NEGATIVE VOLTAGE OUTPUT/INPUT(-10V)
5	RS	DATA/INSTRUCTION SELECT
6	R/W	READ/WRITE SELECT
7	E	ENABLE SIGNAL
8-15	DB0-DB7	DATA BUS
16	/CS1	CHIP SELECT OF IC1 (LOW EFFECTIVE)
17	/CS2	CHIP SELECT OF IC2 (LOW EFFECTIVE)
18	/CS3	CHIP SELECT OF IC3 (LOW EFFECTIVE)
19	/RST	RESET SIGNAL(LOW EFFECTIVE)
20	A	POWER SUPPLY FOR LED B.L.(+)
21	K	POWER SUPPLY FOR LED B.L.(-)

ABSOLUTE MAXIMUM RATING				
ITEM	SYMBOL	MIN	MAX	UNIT
POWER SUPPLY(LOGIC)	VDD-VSS	0	6.5	V
POWER SUPPLY(LCD DRV.)	VDD-V0	0	18.0	V
INPUT VOLTAGE	V _i	V _i	VDD	V

ELECTRICAL CHARACTERISTICS						
ITEM	SYMBOL	MIN	TYP	MAX	UNIT	
VOLTAGE FOR LOGIC	VDD-VSS	4.75	5.0	5.25	V	
SUPPLY CURRENT	IDD	-	5.1	9.8	mA	
LCD OPERATING VOLTAGE	VDD-V0	0C	-	9.2	-	V
		25C	-	9.0	-	V
		40C	-	8.8	-	V
INPUT VOLTAGE	H	V _{IH}	0.7VDD	-	VDD	V
	L	V _{IL}	0	-	0.3VDD	V

MECHANICAL SPECIFICATIONS		
ITEM	SPECIFICATION	UNIT
OVERALL SIZE	120.0W x 62.0H x 14.0T(10.0T)	MM
VIEWING AREA	104.0W x 39.0H	MM
DOT NUMBER	192 x 64	DOTS
DOT SIZE	0.46W x 0.46H	MM
DOT PITCH	0.51W x 0.51H	MM

OPTIONS
1. LCD TYPE: Y/G STN; GRAY STN; B/W FSTN
2. BACKLIGHT: WITHOUT BACKLIGHT; LED; EL
3. COLOR OF BACKLIGHT: Y/G; BLUE; WHITE
4. TEMPERATURE RANGE: NORMAL(0-50C); EXTENDED(-20-70C)
5. POWER SUPPLY: ON BOARD DC/DC(SINGLE 5.0V); DUAL POWER SUPPLY(5.0V & -10.0V)
6. VIEWING ANGLE: 6H; 12H

* FOR LED BACKLIGHT
 T1=14.0MAX T2=9.0±0.3
 * FOR EL OR NO BACKLIGHT
 T1=11.0MAX T2=6.0±0.3

