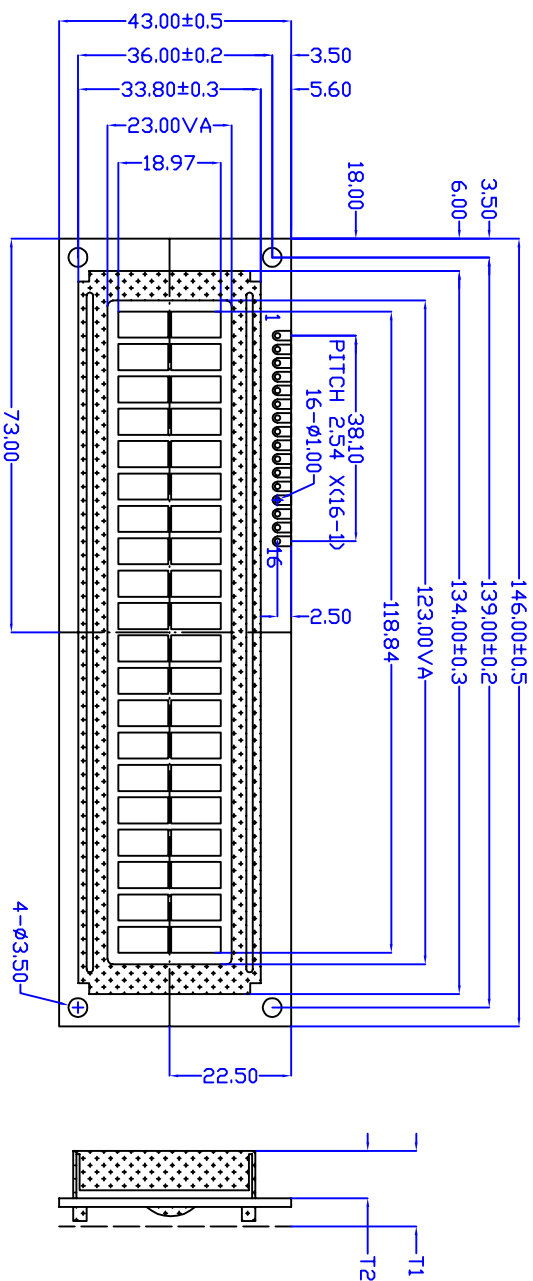
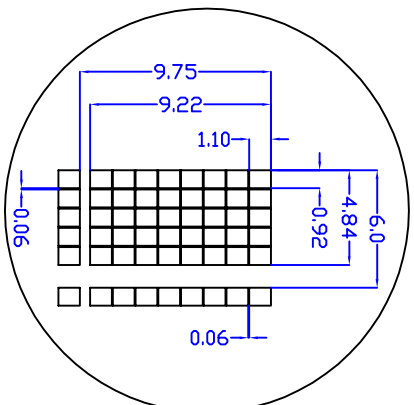
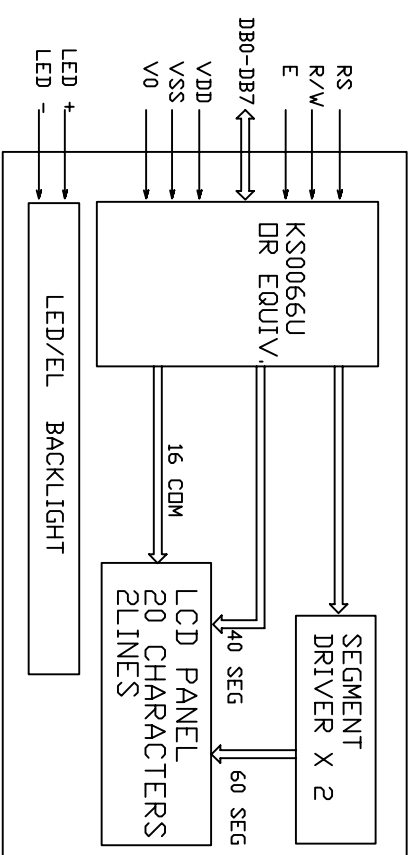


REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	02/03/16	A.CH	NEW RELEASE



* FDR LED BACKLIGHT
T1=14.0MAX T2=9.0±0.3
* FDR EL. DR. NO. BACKLIGHT
T1=10.0MAX T2=5.0±0.3



PINS ASSIGNMENT	
NO.	SYMBOL DESCRIPTION
1	VSS POWER SUPPLY
2	VDD POWER SUPPLY
3	V0 OPERATING VOLTAGE FOR LCD
4	RS DATA/INSTRUCTION SELECT
5	R/W READ/WRITE CONTROL
6	E ENABLE SIGNAL
7--14	DB0--DB7 DATA BUS
15	LED + POWER SUPPLY FOR LED BACKLIGHT (+)
16	LED - POWER SUPPLY FOR LED BACKLIGHT (-)

ABSOLUTE MAXIMUM RATING				
ITEM	SYMBOL	MIN	MAX	UNIT
POWER SUPPLY(VDD)	VDD-VSS	-0.3	7.0	V
POWER SUPPLY(LCD DRV.)	VDD-V0	-0.3	13.5	V
INPUT VOLTAGE	VI	-0.3	VDD	V

ELECTRICAL CHARACTERISTICS (VDD=5.0±0.25V, 25°C)				
ITEM	SYMBOL	MIN	TYP	MAX UNIT
VOLTAGE FOR LOGIC(VDD-VSS)	4/75	5.0	5.25	V
SUPPLY CURRENT	IDD	-	2.0	3.5 mA
VOLTAGE FOR LCD	VDD-V0	-	4.6	V
INPUT VOLTAGE	VH	2.2	-	VDD V
	VIL	-0.3	-	0.6 V
OUTPUT VOLTAGE	VOH	2.4	-	V
	VOL	-	-	0.4 V

MECHANICAL SPECIFICATIONS		
ITEM	SPECIFICATION	UNIT
OVERALL SIZE	146.0W x 43.0H x 14.0T(10.0T)	MM
VIEWING AREA	123.4W x 23.0H	MM
CHARACTERS	20 CHARACTERS x 2 LINES	MM
CHARACTER SIZE	4.84W x 9.22H	MM
CHARACTER PITCH	6.0W x 9.75H	MM

OPTIONS	
1. LCD TYPE:	Y/G STN, GRAY STN, TN
2. BACKLIGHT:	WITHOUT BACKLIGHT, LED, EL
3. COLOR OF BACKLIGHT:	Y/G, BLUE, WHITE
4. TEMPERATURE RANGE:	NORMAL(0--50C)
5. POWER SUPPLY:	5.0V, 3.0V
6. VIEWING ANGLE:	6H, 12H
7. CHARACTER TABLE:	JAPANESE, EUROPEAN, CYRILLIC

NT-C2022A

20 CHARACTERS X 2 LINES



ALL DIMENSIONS ARE IN MM. TOLERANCE IS ±0.2
UNLESS OTHERWISE NOTED.

