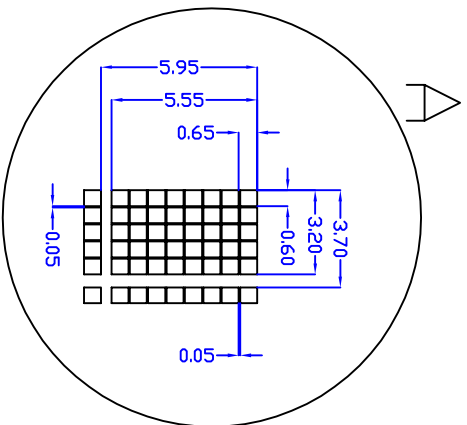
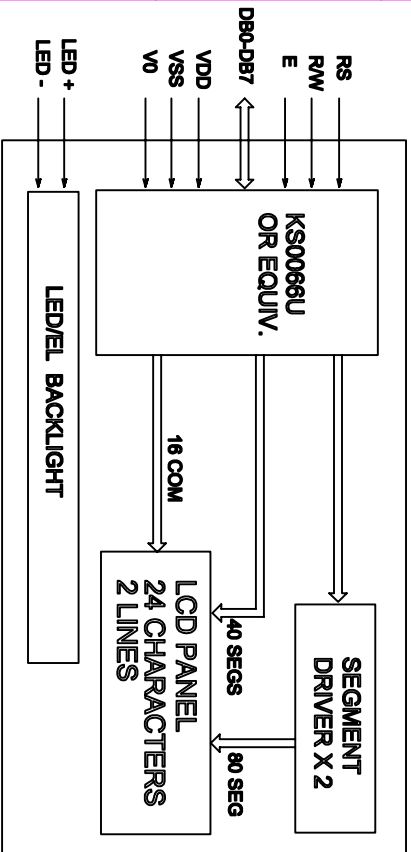


\* FOR LED BACKLIGHT  
 T1=14.0MAX T2=9.0±0.3  
 \* FOR EL DR NO BACKLIGHT  
 T1=10.0MAX T2=5.0±0.3



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
POWER SUPPLY (LOGIC)	VDD-VSS	-0.3	7.0
POWER SUPPLY (LCD DRV.)	VDD-V0	-0.3	13.5
INPUT VOLTAGE	VI	-0.3	VDD

ELECTRICAL CHARACTERISTICS (VDD=5.0±0.25V, 25°C)				
ITEM	SYMBOL	MIN	TP	MAX
VOLTAGE FOR LOGIC	VDD-VSS	4.75	5.0	5.25
SUPPLY CURRENT	IDD	-	2.0	2.8
VOLTAGE FOR LCD	VDD-V0	-	4.6	-
INPUT VOLTAGE	V/IH	2.2	-	VDD
	V/IL	-0.3	-	0.6
OUTPUT VOLTAGE	H	VoH	2.4	-
	L	VoL	-	0.4

MECHANICAL SPECIFICATIONS		
ITEM	SPECIFICATION	UNIT
OVERALL SIZE	118.0W x 36.0H x 14.0T(10.0T)	MM
VIEWING AREA	93.5W x 16.0H	MM
CHARACTERS	24 CHARACTERS x 2 LINES	MM
CHARACTER SIZE	3.20W x 5.55H	MM
CHARACTER PITCH	3.70W x 5.95H	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--50°C) EXTENDED (-20--70°C)
5. POWER SUPPLY:	5.0V, 3.0V
6. VIEWING ANGLE:	6H, 12H
7. CHARACTER TABLE:	JAPANESE, EUROPEAN, CYRILLIC

REVISIONS		
NO.	DATE	BY
1	01/09/03	A.CH
		DESCRIPTION
		NEW RELEASE

NT-C2421A

24 CHARACTERS X 2 LINES



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

NELY, YOUR SUPPLIER, AND YOUR PARTNER!