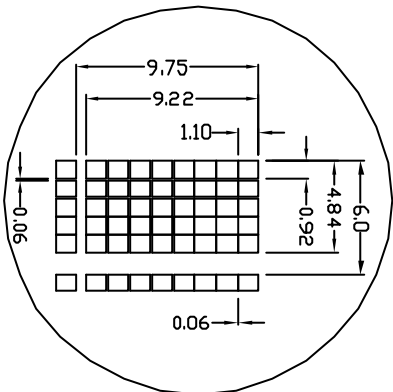
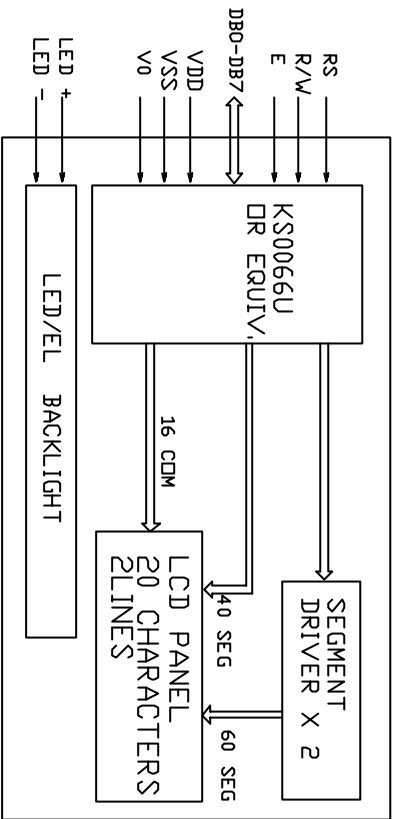


* FOR LED BACKLIGHT
 T1=14.0MAX T2=9.0±0.3
 * FOR EL OR NO BACKLIGHT
 T1=10.0MAX T2=5.0±0.3



NT-C2022A

20 CHARACTERS X 2 LINES

NELY, YOUR SUPPLIER, AND YOUR PARTNER!



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



REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	01/06/18	ACh	NEW RELEASE

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	TYP	MAX
VOLTAGE FOR LOGIC	VDD-VSS	4.75	5.0	5.25
SUPPLY CURRENT	IDD	-	2.0	3.5
VOLTAGE FOR LCD	VDD-V0	-	4.6	-
INPUT VOLTAGE	VH	2.2	-	VDD
	VL	-0.3	-	0.6
OUTPUT VOLTAGE	VOH	2.4	-	-
	VOL	-	-	0.4

MECHANICAL SPECIFICATIONS		
ITEM	SPECIFICATION	UNIT
OVERALL SIZE	146.0V x 43.0H x 14.0T(G0.0T)	MM
VIEWING AREA	123.1V x 23.0H	MM
CHARACTER SIZE	20 CHARACTERS x 2 LINES	MM
CHARACTER PITCH	6.0V 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: ND(RAL10--50C)
5.	POWER SUPPLY: 5.0V/ 3.0V
6.	VIEWING ANGLE: 6H/ 12H
7.	CHARACTER TABLE: JAPANESE/ EUROPEAN/ CYRILLIC