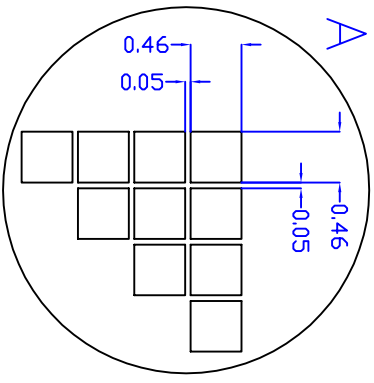


\* SEGMENT DRIVER:  
KS0108 OR EQUIV.  
\* COMMON DRIVER:  
KS0107 OR EQUIV.



REVISIONS

NO.	DATE	BY	DESCRIPTION
1	02/10/15	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	RS	DATA/INSTRUCTION SELECT
5	R/W	READ/WRITE SELECT
6	E	ENABLE SIGNAL
7-14	DB0-DB7	DATA BUS
15	/CS1	CHIP SELECT OF IC1 (LOW EFFECTIVE)
16	/RST	RESET SIGNAL (LOW EFFECTIVE)
17	/CS2	CHIP SELECT OF IC2 (LOW EFFECTIVE)
18	/CS3	CHIP SELECT OF IC3 (LOW EFFECTIVE)
19	VEE	NEGATIVE VOLTAGE OUTPUT/INPUT (-10V)
20	A	POWER SUPPLY FOR LED BL (+5.0V)

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	VI	VI	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	-	10.7	-	V
INPUT VOLTAGE	VH	0.7VDD	-	-	V
VOLTAGE FOR LED BL	VA-VSS	4.0	4.10	4.40	V

MECHANICAL SPECIFICATIONS

ITEM	SPECIFICATION	UNIT
OVERALL SIZE	130.0W x 65.0H x 14.0T (10.0T)	MM
WING 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

NT-G192641A

192 X 64 DOTS GRAPHIC LCM



NELY, YOUR SUPPLIER, AND YOUR PARTNER!

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