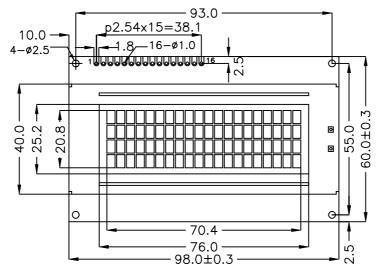
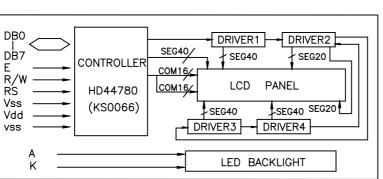
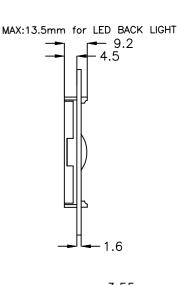
20 CHAR. 4 LINE

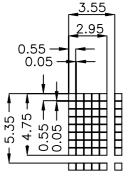
OPTIONS

- * LCD PANEL TN or STN
- * View Angle 12H or 6H
- * Character Eng/Jan Eng/Rus Eng/Eur









All dimensions in mm. Tolerance ±0.3mm unless otherwise specified.

MECHANICAL SPECIFICATIONS					
ITEM	SPECIFICATION	UNIT			
Overall Size	98.0Wx60.0Hx9.2T(BL13.5T)	mm			
Viewing Area	76.0Wx25.2H	mm			
Character Number	20Wx4H				
Character Size	2.95Wx4.75H	mm			
Character Pitch	3.55Wx5.35H	mm			
Dot Size	0.55Wx0.55H	mm			

PIN ASSIGNMENT				
PIN	SYMBOL	FUNCTION		
1	Vss	Power Supply(GND)		
2	Vdd	Power Supply(+5V)		
3	Vo	Contrast Adjust		
4	RS	Instruction/Data Register Select		
5	R/W	Data Read/Write		
6	E	Enable Signal		
7-14	DBO-DB7	Data Bus Line		
15	Α	Power Supply for LED BL(+)		
16	K	Power Supply for LED B/L(-)		

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	MIN.	MAX.	UNIT	
Power Supply (Logic)	Vdd	-0.3	7.0	٧	
Power Supply (LCD)	Vo	Vdd-15.0	Vdd+0.3	٧	
Input Voltage	Vi	-0.3	Vdd	٧	
Operating Temperature	Topr	0	50	్రి	
Storage Temperature	Tstg	-20	70	౮	

ELECTRICAL CHARACTERISTICS(Ta=25C, Vdd=5V+0.25V)					
ITEM	SYMBOL	MIN.	MIN.	MAX.	UNIT
Power Supply(Logic)	Vdd	4.5	5.0	5.5	<
Supply Current	ldd	2.0	_	_	mΑ
LCD Driving Voltage	Vdd-Vo	_	_	13.0	٧
Input Voltage "H"	Vih	2.2	_	Vdd	٧
Input Voltage 'L"	Vil	_	_	0.6	V
Output Voltage "H"	Voh	2.4	_	_	٧
Output Voltage 'L"	Vol		_	0.4	٧

LED BACKLIGHT SPECIFICATIONS					
ITEM	TYP.	ITEM	TYP.		
Forward Voltage	4.2V	Power Dissipation	1580mW		
Forward Current	375mA	Emission Wavelength	570nm		