

# LCD GRAPHIC 122x32

## INCL. CONTROLLER FOR 8 BIT BUS



blue-white: EA DIP122B-5NLW  
Dimension 75 x 27 mm

**no more mounting  
required**

yellow/green: EA DIP122-5HNLED  
Dimension 68 x 27 mm



amber: EA DIP122J-5NLA  
Dimension 75 x 27 mm

### FEATURES

- \* HIGH CONTRAST LCD DISPLAY AS STN AND FSTN
- \* CLASSIC LINE YELLOW/GREEN: EA DIP122-5HNLED
- \* OR BLUE-WHITE EA DIP122B-5NLW
- \* BUILT IN CONTROLLER PT6520 OR COMPATIBLE
- \* INTERFACE FOR 8 BIT DATA BUS
- \* POWER SUPPLY +2.7~5V / -6.3~-4V 800µA max.
- \* LED BACKLIGHT Y/G max. 150mA@+25°C
- \* LED BACKLIGHT AMBER AND WHITE max. 45mA@+25°C
- \* SOME MORE MODULES WITH SAME MECHANIC AND SAME PINOUT:  
DOTMATRIX 1x8, 2x16, 4x20 AND 128x64, 240x128 WITH LARGER OUTLINE
- \* NO SCREWS REQUIRED: SOLDER ON IN PCB ONLY
- \* DETACHABLE VIA 9-PIN SOCKET EA B200-9 (2 PCS. REQUIRED)
- \* OPERATING TEMPERATURE RANGE 0~+50°C OR
- \* -20~+70°C OPERATING TEMP. WITH BUILT-IN TEMP. COMP. CIRCUIT

### ORDERING INFORMATION

LCD GRAPHIC MODULE 122x32, WITH BACKLIGHT Y/G  
Y/G FOR -20~+70°C OPERATING TEMP. RANGE  
BLUE-WHITE FOR -20~+70°C, LOW POWER  
AMBER FOR -20~+70°C  
9-PIN SOCKET, HEIGHT 4.3mm (2 PCS. REQUIRED)  
HIGH-LEVEL-GRAPHICSCONTROLLER WITH RS-232C

EA DIP122-5NLED  
EA DIP122-5HNLED  
EA DIP122B-5NLW  
EA DIP122J-5NLA  
EA B200-9  
EA IC1520-1PGH

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## **CONTRAST ADJUSTMENT**

Contrast voltage for all displays of EA DIP122-5 series is typ. -4V. That means that for 5V power supply an additional negative voltage of min. 4V is required.

Display modules for -20..+70°C (-5HNLED, -5NLW and -5NLA) are equipped with an on-board temperature compensation. So there's no more need for contrast adjustment while operation anymore.

Furthermore these 3 displays are featured with a superfast STN/FSTN liquid that allows fast response even at very low temperatures: typical response time at -20°C is 2 seconds only.

## **BACKLIGHT**

Driving the backlight requires a current source or an external resistor for current limit. Please take care of derating for  $t_a > +25^\circ\text{C}$ .  $U_f$  for yellow/green backlight is 3.9~4.2V, 2.2~2.6V (amber) and 3.0~3.6V for white LED backlight.

Note: Do never drive backlight direct to 5V; immediately damage may happen !

## **YELLOW/GREEN - BLUE - AMBER**

The blue-white display EA DIP122B-5NLW is best for indoor use with and without ambient light. Reading the display requires a minimum of backlight with about 15mA.

The yellow/green version EA DIP122-5NLED is especially designed for 24-hour or outdoor applications. These displays do provide best contrast for all ambient illuminations, even with direct sunlight. No need to say that these display can be read in darkness when LED backlight is switched on.

This is same for the amber backlighted version EA DIP122J-5NLA.

