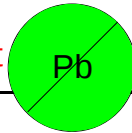


This  
component  
is RoHS  
compliant

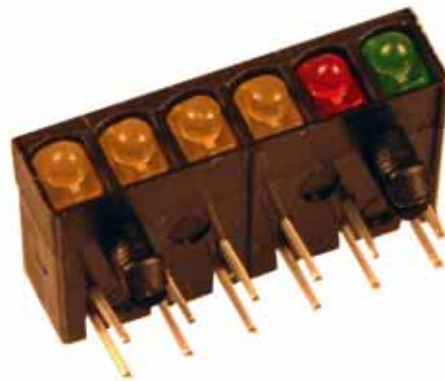


# BOT1806 6 ELEMENT PCB MOUNT 1.8mm LED ARRAY

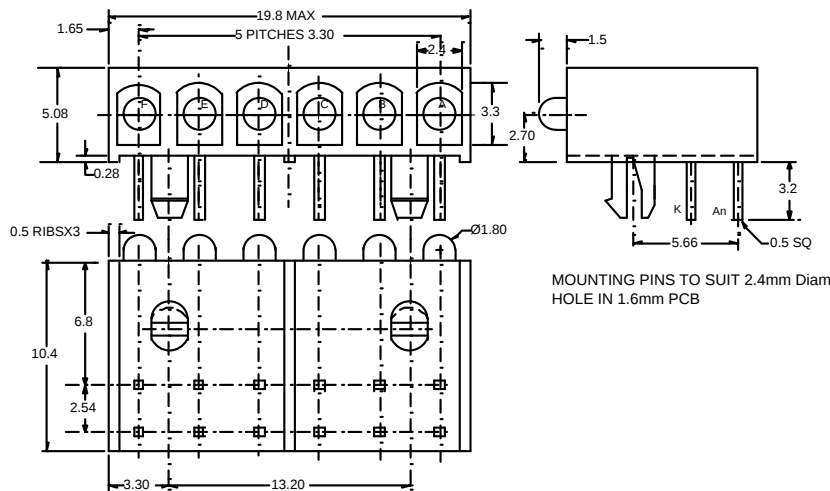
## BLUE LEDS NOW AVAILABLE

The BOT1806 series array is a family of devices using a Black Nylon 6 VO rated housing to mount up to six in line 1.8mm LEDs on 3.30mm centres at right angles to the PCB. In any one batch the LEDs are matched for lumenous intensity . This array has locating pins for alignment and multiple package use.

- End stackable
- Accurate positioning.
- Good matching
- $\pm 20$  Deg viewing angle
- Mixed colours



## MECHANICAL DATA



**BEDFORD OPTO TECHNOLOGY LTD**  
**1,BIGGAR BUSINESS PARK, BIGGAR,LANARKSHIRE ML12 6FX**  
**Tel: +44 (0) 1899 221221 Fax: +44 (0) 1899 221009**  
**Website: bot.co.uk E-mail: bill@bot.co.uk**

**ABSOLUTE MAXIMUM RATINGS** (TA = 25°C)**BOT1806**

|                             | Red           | Others  |
|-----------------------------|---------------|---------|
| REVERSE VOLTAGE             | 5Volts        | 5 Volts |
| CONTINUOUS FORWARD CURRENT  | 30mA          | 30 mA   |
| POWER DISSIPATION Ta < 55 C | 100mW         | 100 mW  |
| OPERATING TEMP              | -20 to +100°C |         |
| STORAGE TEMP                | -55 to +100°C |         |
| DERATING FROM 25°C          | 0.4mA/ °C     |         |

|                   | Blue       |
|-------------------|------------|
| REVERSE VOLTAGE   | 5 Volts    |
| FORWARD CURRENT   | 30 mA      |
| POWER DISSIPATION | 120mW      |
| OPERATING TEMP °C | -20 to+80  |
| STORAGE TEMP °C   | -30 to+100 |

**SOLDERING TEMPERATURE** (5secs max 1.6mm from body)  
**ALL TYPES**

**260 °C max**

**OPTO**

| COLOUR |     | Luminous Intensity<br>If = 10mA<br>mcd | Peak Wavelength<br>nm | Forward Voltage<br>If = 20mA<br>volts |
|--------|-----|----------------------------------------|-----------------------|---------------------------------------|
| RED    | min | 1.2                                    | -                     | -                                     |
|        | typ | 2.5                                    | 695                   | 2.2                                   |
|        | ma  | -                                      | -                     | 2.8                                   |
| ORANGE | min | 9.0                                    | -                     | -                                     |
|        | typ | 15                                     | 633                   | 2                                     |
|        | ma  | -                                      | -                     | 2.8                                   |
| YELLOW | min | 3.0                                    | -                     | -                                     |
|        | typ | 5                                      | 590                   | 2.1                                   |
|        | ma  | -                                      | -                     | 2.8                                   |
| GREEN  | min | 6.5                                    | -                     | -                                     |
|        | typ | 15                                     | 570                   | 2.2                                   |
|        | ma  | -                                      | -                     | 2.8                                   |
| BLUE   | Min | 21                                     | 430                   | 3.8                                   |
|        | Typ | 38                                     |                       |                                       |

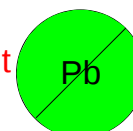
**ORDERING INFORMATION**

**BOT106 A - - - - - F**

R = Red                      O = Orange  
Y = Yellow                  G = Green  
BL=Blue                    B = Blank

For all same colour LEDs please use just one letter.Mixed colour combinations will be issued a special part number.

**This  
component  
is RoHS  
compliant**



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