

**DISPLAY Elektronik GmbH**

# DATA SHEET

**BACKLIGHT**

**DE LP-503-Y**

*Product Specification*

*Version: 1*

17.11.2016



**CONTENTS**

**1. FEATURES .....2**

**2. EXTERNAL DIMENSION (UNIT: MM).....2**

**3. ELECTRICAL/OPTICAL SPECIFICATIONS.....3**

**4. ACCEPT QUALITY LEVEL (AQL). ..... FEHLER! TEXTMARKE NICHT DEFINIERT.**

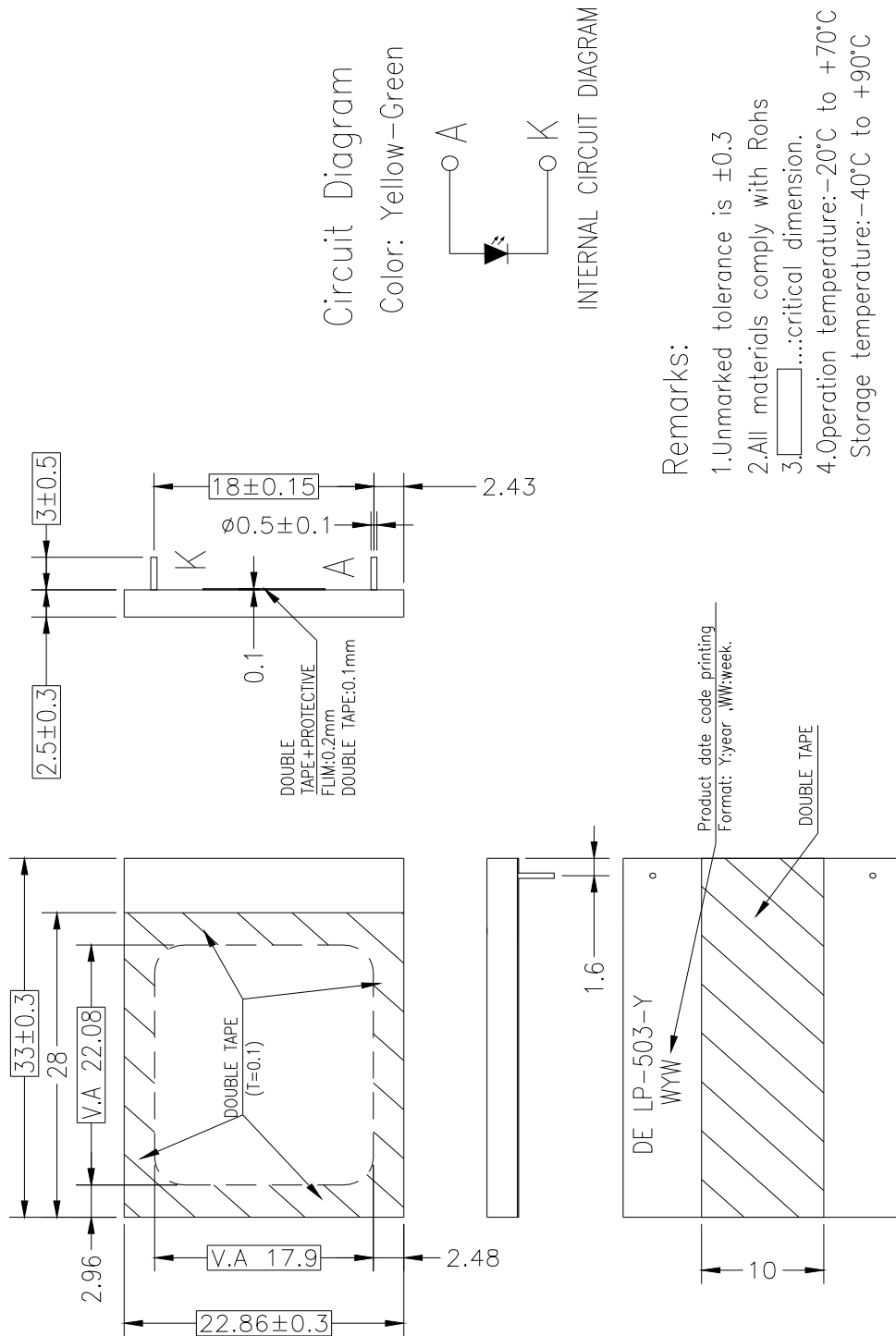
**5. RELIABILITY TEST..... FEHLER! TEXTMARKE NICHT DEFINIERT.**

**1. FEATURES**

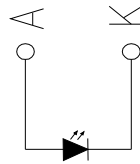
Backlight Color: Yellow-Green

RoHS: Conformed

**2. EXTERNAL DIMENSION (unit: mm)**



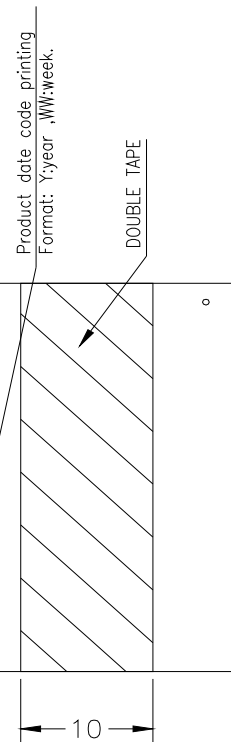
Circuit Diagram  
Color: Yellow-Green



INTERNAL CIRCUIT DIAGRAM

Remarks:

1. Unmarked tolerance is  $\pm 0.3$
2. All materials comply with RoHS
3. [ ] ...critical dimension.
4. Operation temperature:  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$   
Storage temperature:  $-40^{\circ}\text{C}$  to  $+90^{\circ}\text{C}$



**3. ELECTRICAL/OPTICAL SPECIFICATIONS**

## ELECTRICAL–OPTICAL CHARACTERISTICS

Ta=25°C. Unless specified, The Ambient temperature Ta=25°C

| Item                 | Symbol                        | min. | typ. | max. | Unit              | Condition           |
|----------------------|-------------------------------|------|------|------|-------------------|---------------------|
| Forward Voltage      | Vf                            | 1.8  | 2.1  | 2.5  | V                 | If= 20 mA           |
| Power Dissipation    | Pd                            |      |      | 50   | mW                | If= 20 mA           |
| Luminous Uniformity  | $\Delta Lv$                   | 70   |      |      | %                 | MIN/MAX*100%        |
| Luminance            | Lv                            | 15   | 50   |      | cd/m <sup>2</sup> | If= 20 mA<br>T=25°C |
| Dominant Wave Length | $\lambda D$                   | 565  | 570  | 575  | nm                |                     |
| Lifetime             | 50000(brightness reduce half) |      |      |      | Hours             |                     |

**4. ACCEPT QUALITY LEVEL (AQL).**

4.1. AQL standard value: Critical defect =0, Major defect=0.65; Minor defect =2.5.

4.2. Inspection Plan: ANSI Z-1.4, Normal Inspection Level II, Single Sampling Plan.

**5. RELIABILITY TEST**

| Test Item                       | Test Condition   |
|---------------------------------|--|
| High Temperature Storage        | +90°C x 96h  |
| Low temperature Storage         | -40°C x 96h  |
| High Temperature Operation      | +70°C x 96h  |
| Low Temperature Operation       | -20°C x 96h  |
| High Temperature, High Humidity | 60°C x 90%RH x 4 Weeks                                   |
| Thermal Shock                   | -20°C x 30min → 25°C x 10s → +70°C x 30min<br>x 5 Cycles |
| Vibration Test                  | Frequency x Swing x Time<br>40Hz x 4mm x 4h              |
| Drop Test                       | Height x Number of drop<br>1.0m x 6 drops                |

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