

**DISPLAY Elektronik GmbH**

# DATA SHEET

**BACKLIGHT**

**DE LP-508-W**

*Product Specification*

*Version: 0*

12.10.2016

# GENERAL SPECIFICATION

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MODEL NO. :

**DE LP-508-W**

CUSTOMER P/N

| Version No. | Change Description | Date       |
|-------------|--------------------|------------|
| 0           | Original Version   | 12.10.2016 |
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PREPARED BY: ZX

DATE: 12.10.2016

APPROVED BY: MH

DATE: 12.10.2016

**CONTENTS**

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

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

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

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

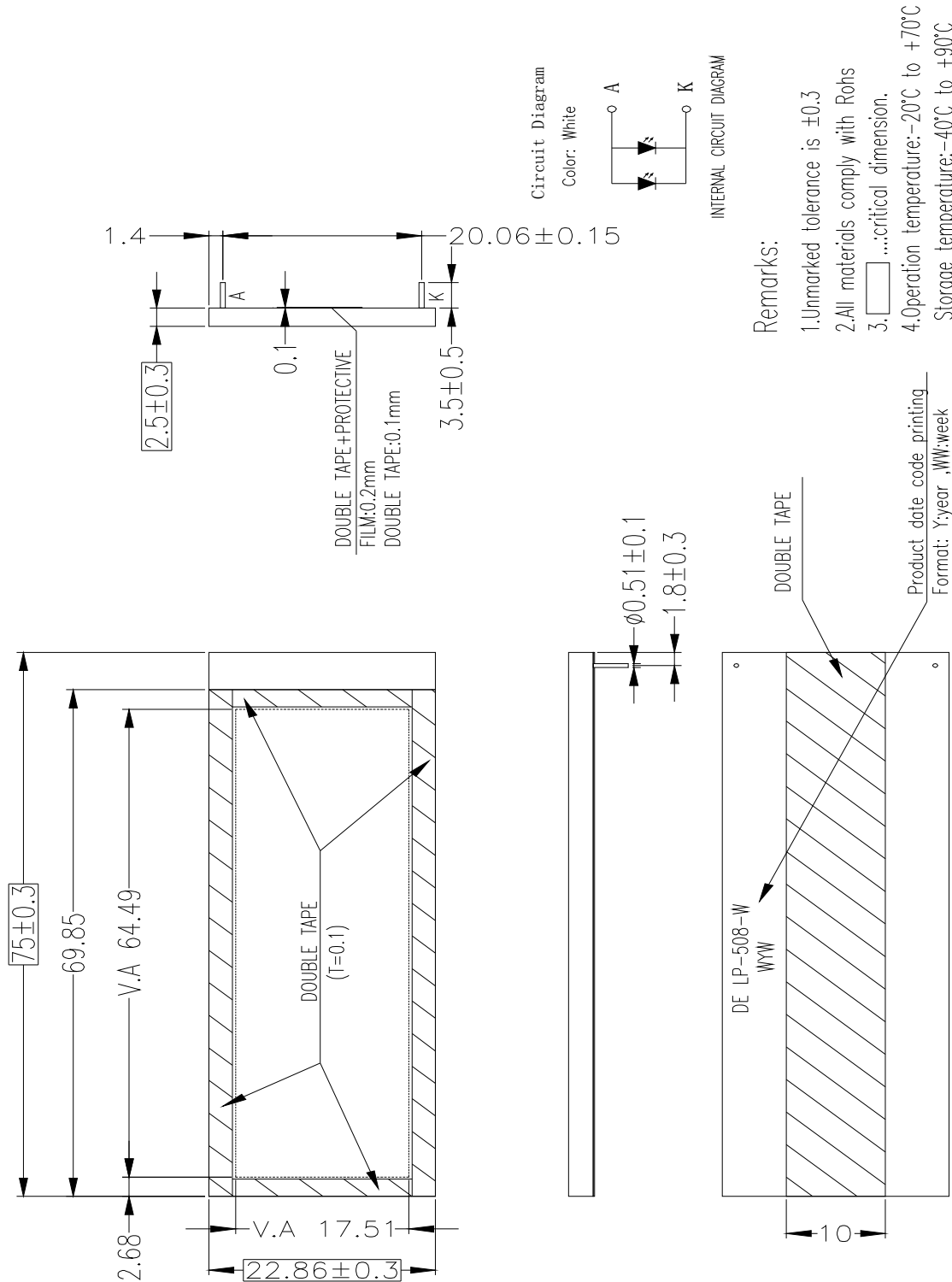
**5. RELIABILITY TEST..... FEHLER! TEXTMARKE NICHT DEFINIERT.**

**1. FEATURES**

Backlight Color: White

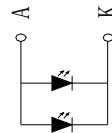
RoHS: Conformed

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



Circuit Diagram

Color: White



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**

Electronics/Optical Specifications:

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

| Item                | Symbol                        | min.  | typ. | max.  | Unit              | Condition           |
|---------------------|-------------------------------|-------|------|-------|-------------------|---------------------|
| Forward Current     | Iv                            | 2.6   | 3.0  | 3.3   | v                 | If=20*2 mA          |
| Power Dissipation   | Pd                            | –     | –    | 132   | mW                | If=20*2 mA          |
| Luminous Uniformity | $\Delta Lv$                   | 70    |      |       | %                 | MIN/MAX*100%        |
| Luminance           | Lv                            | 600   | 850  | –     | cd/m <sup>2</sup> | If=20*2mA<br>T=25°C |
| Color Coordinate    | X                             | 0.270 |      | 0.340 |                   |                     |
|                     | Y                             | 0.270 |      | 0.340 |                   |                     |
| 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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