

DISPLAY Elektronik GmbH

DATA SHEET

BACKLIGHT

DE LP-509-W

Product Specification

Version: 0

20.10.2016

GENERAL SPECIFICATION

MODEL NO. :

DE LP-509-W

CUSTOMER P/N

| Version No. | Change Description | Date |
|-------------|--------------------|------------|
| 0 | Original Version | 20.10.2016 |
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PREPARED BY: ZX

DATE: 20.10.2016

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DATE: 20.10.2016

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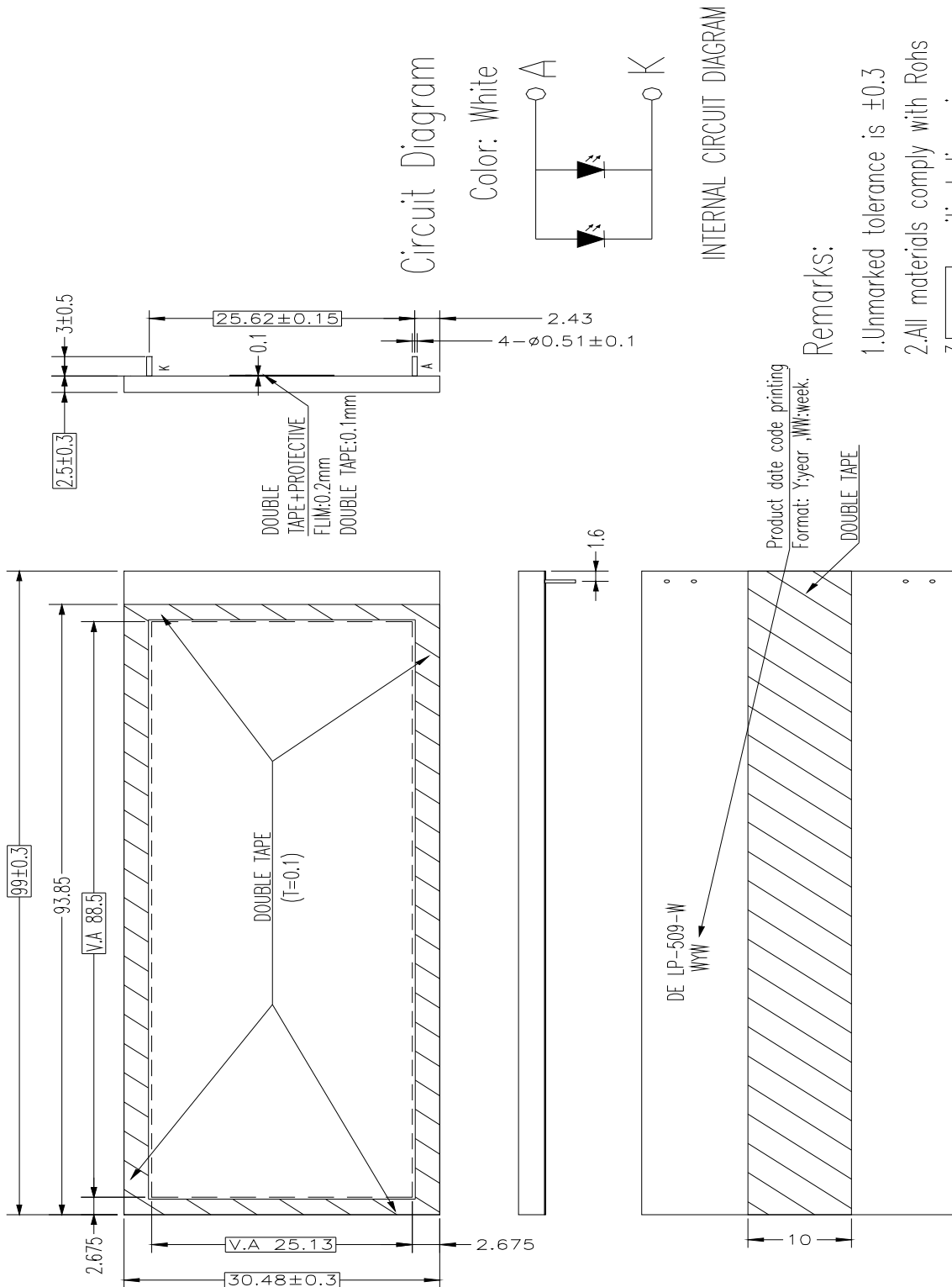
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1. FEATURES

Backlight Color: White

RoHS: Conformed

2. EXTERNAL DIMENSION (unit: mm)



- Remarks:**
1. Unmarked tolerance is ± 0.3
 2. All materials comply with RoHS
 3. ...:critical dimension.
 4. Operation temperature: -20°C to $+70^{\circ}\text{C}$
Storage temperature: -40°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 Current | Iv | 2.6 | 3.0 | 3.3 | v | If= 20*2 mA |
| Power Dissipation | Pd | - | - | 132 | mW | If= 20*2 mA |
| Luminous Uniformity | ΔLv | 70 | | | % | MIN/MAX*100% |
| Luminance | Lv | 250 | 500 | | cd/m ² | If=20*2 mA 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 x 5 Cycles |
| Vibration Test | Frequency x Swing x Time 40Hz x 4mm x 4h |
| Drop Test | Height x Number of drop 1.0m x 6 drops |