

DISPLAY Elektronik GmbH

DATA SHEET

BACKLIGHT

DE LP-505-Y

Product Specification

Version: 1

17.11.2016

GENERAL SPECIFICATION

MODEL NO. :

DE LP-505-Y

CUSTOMER P/N

| Version No. | Change Description | Date |
|-------------|--------------------|------------|
| 0 | Original Version | 29.09.2016 |
| 1 | Change Brightness | 17.11.2016 |
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PREPARED BY: ZX

DATE: 17.11.2016

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DATE: 17.11.2016

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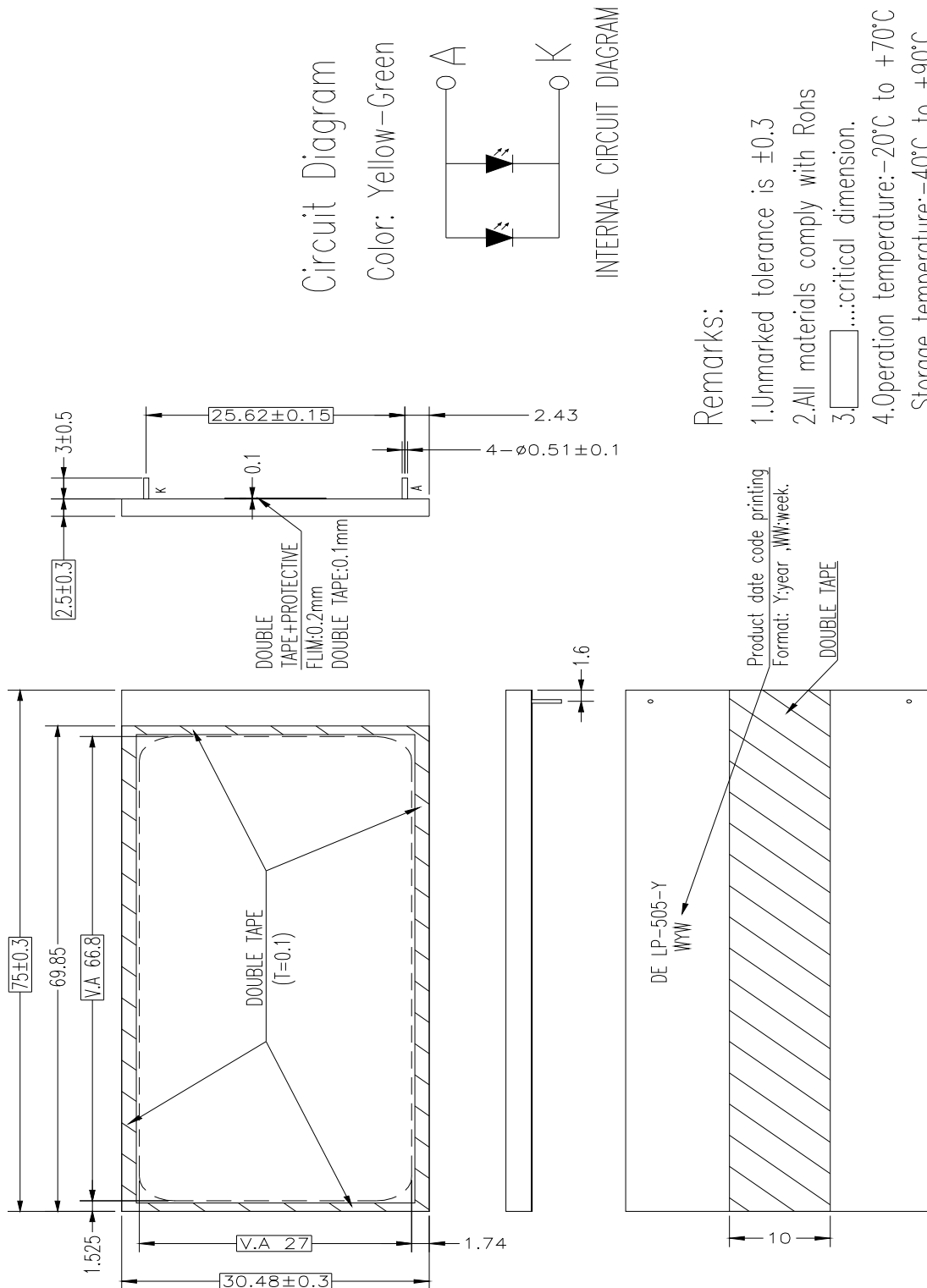
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1. FEATURES

Backlight Color: Yellow-Green

RoHS: Conformed

2. EXTERNAL DIMENSION (unit: mm)



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*2 mA |
| Power Dissipation | Pd | | | 100 | mW | If= 20*2 mA |
| Luminous Uniformity | ΔL_v | 70 | | | % | MIN/MAX*100% |
| Luminance | Lv | 10 | 35 | | cd/m ² | If=20*2 mA T=25°C |
| Dominant Wave Length | λ_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 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 |