

DISPLAY Elektronik GmbH

DATA SHEET

BACKLIGHT

DE LP-509-Y

Product Specification

Version: 1

17.11.2016

GENERAL SPECIFICATION

MODEL NO. :

DE LP-509-Y

CUSTOMER P/N

| Version No. | Change Description | Date |
|-------------|--------------------|------------|
| 0 | Original Version | 20.10.2016 |
| 1 | Change Brightness | 17.11.2016 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

PREPARED BY: ZX

DATE: 17.11.2016

APPROVED BY: MH

DATE: 17.11.2016

CONTENTS

1. FEATURES2

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

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

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

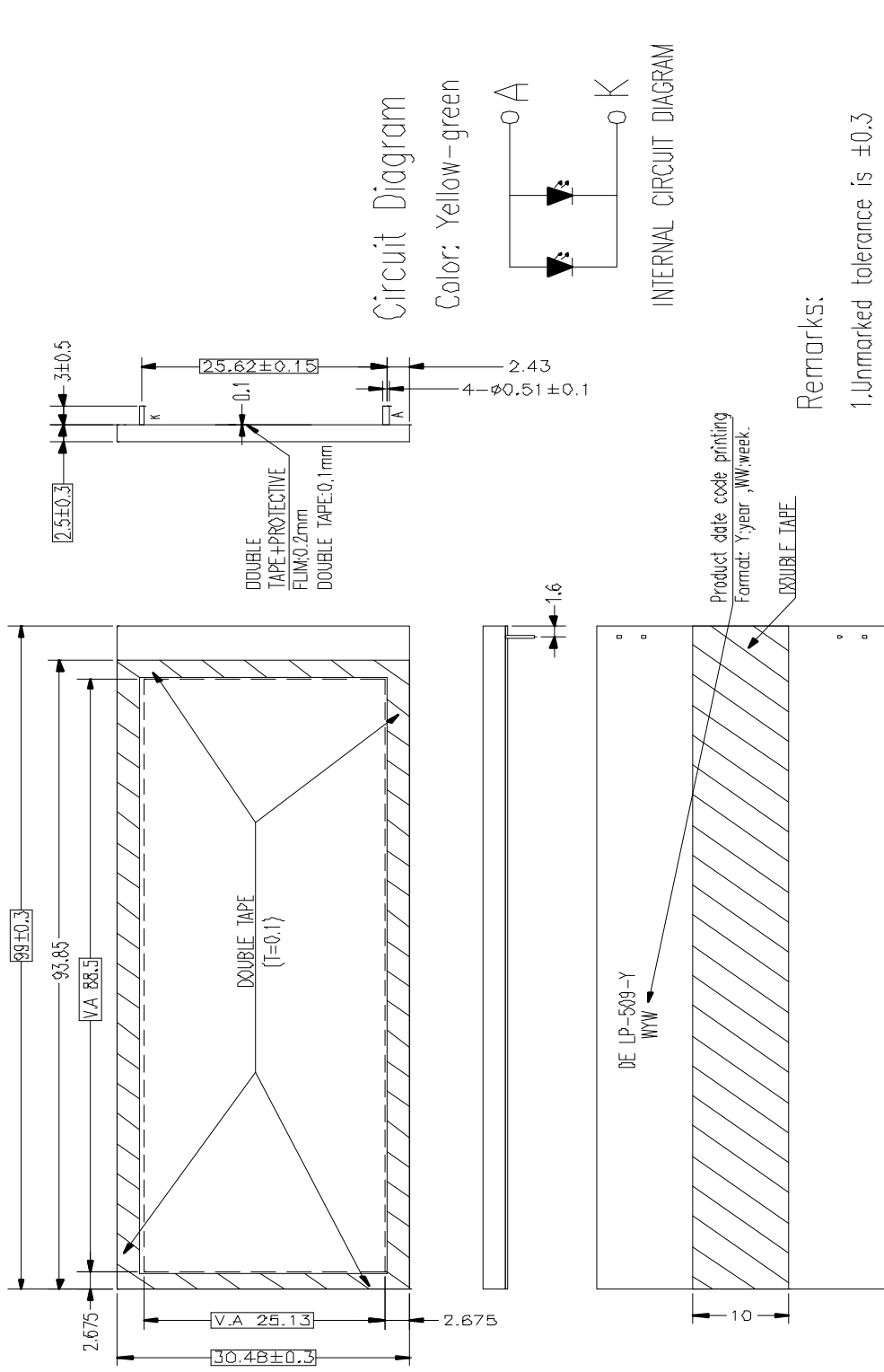
5. RELIABILITY TEST..... FEHLER! TEXTMARKE NICHT DEFINIERT.

1. FEATURES

Backlight Color: Yellow-Green

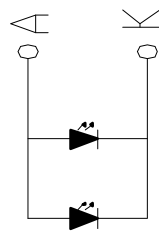
RoHS: Conformed

2. EXTERNAL DIMENSION (unit: mm)



Circuit Diagram

Color: Yellow-green



INTERNAL CIRCUIT DIAGRAM

Remarks:

1. Unmarked tolerance is ± 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 Voltage | Vf | 1.8 | 2.1 | 2.5 | V | If= 20*2 mA |
| Power Dissipation | Pd | | | 100 | mW | If= 20*2 mA |
| Luminous Uniformity | Δ Lv | 70 | | | % | MIN/MAX*100% |
| Luminance | Lv | 10 | 30 | | cd/m ² | If=20*2 mA T=25°C |
| Dominant Wave Length | λD | 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 |

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [TFT Displays & Accessories](#) category:

Click to view products by [Display Elektronik](#) manufacturer:

Other Similar products are found below :

[OAI-80038AA-2013-A](#) [HDA430T-3G1H](#) [EA CARREDIPTFT02](#) [NL6448BC20-21D](#) [NB7W-KBA04](#) [NB-ATT01](#) [NB5Q-ATT01](#) [NB5Q-KBA04](#) [NB-CN001](#) [NL12880BC20-05](#) [NL8060BC26-35C](#) [NL8060BC26-35F](#) [TCG104SVLQAPNN-AN20](#) [OAI-80038AA-2008-A](#) [315-U004B15300](#) [UMSH-8596MD-34T \(REV D\)](#) [98-0003-3490-8](#) [1044278](#) [1029309](#) [1060549](#) [DE 127-TU-30/7,5](#) [DE 128-TU-20/7,5](#) [EP-LK007TFTPCAP](#) [FR7.0A00](#) [RC2002A-TIG-CSX](#) [NL6448BC2021C](#) [TX17D01VM2EAB](#) [TX14D23VM5BAA](#)
[TCG121WXLRXVNNANX35](#) [EIC-LCD-1080P](#) [T272480C07VR01](#) [1060632](#) [TCG070WVLPAAANN-AN50](#) [TCG035QVLPDANN-GN50](#)
[1060630](#) [RFE430V-AIW-DNG](#) [T-55619GD065J-LW-ABN](#) [NHD-1.8-128160EF-SSXN-FT](#) [TCG104SVLPEANN-AN30](#) [NL6448BC33-70](#)
[NL192108BC18-06F](#) [NLB150XG02L-01](#) [NL6448BC20-30D](#) [NL10276BC16-06](#) [NL192108AC10-01D](#) [NL6448AC18-08F](#) [NL6448BC20-30F](#)
[NL12880BC20-05BD](#) [NL12880BC20-05D](#) [NL8060BC26-35BA](#)