

**DISPLAY Elektronik GmbH**

**DATA SHEET**

**BACKLIGHT**

**DE LP-501-Y**

*Product Specification*

*Version: 0*

**22.08.2016**



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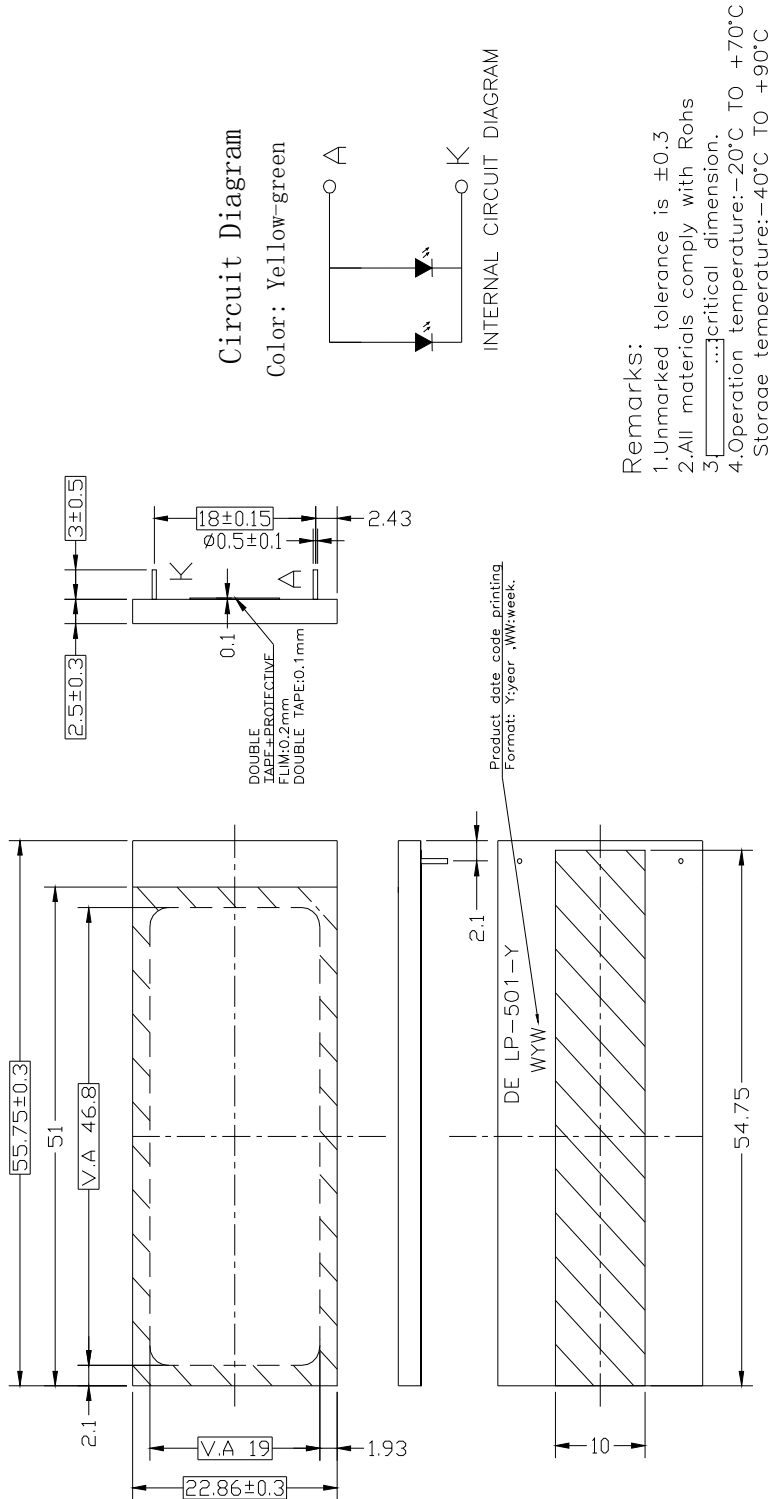
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1. FEATURES

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	1.6	2.0	2.5	V	If= 30 mA
Power Dissipation	Pd			138	mW	If= 30 mA
Luminous Uniformity	$\Delta Lv$	70			%	MIN/MAX*100%
Luminance	Lv	30	70		cd/m <sup>2</sup>	If=30 mA 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 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

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