

**DISPLAY Elektronik GmbH**

**DATA SHEET**

**BACKLIGHT**

**DE LP-505-RGB**

*Product Specification*

*Version: 1*

17.11.2016



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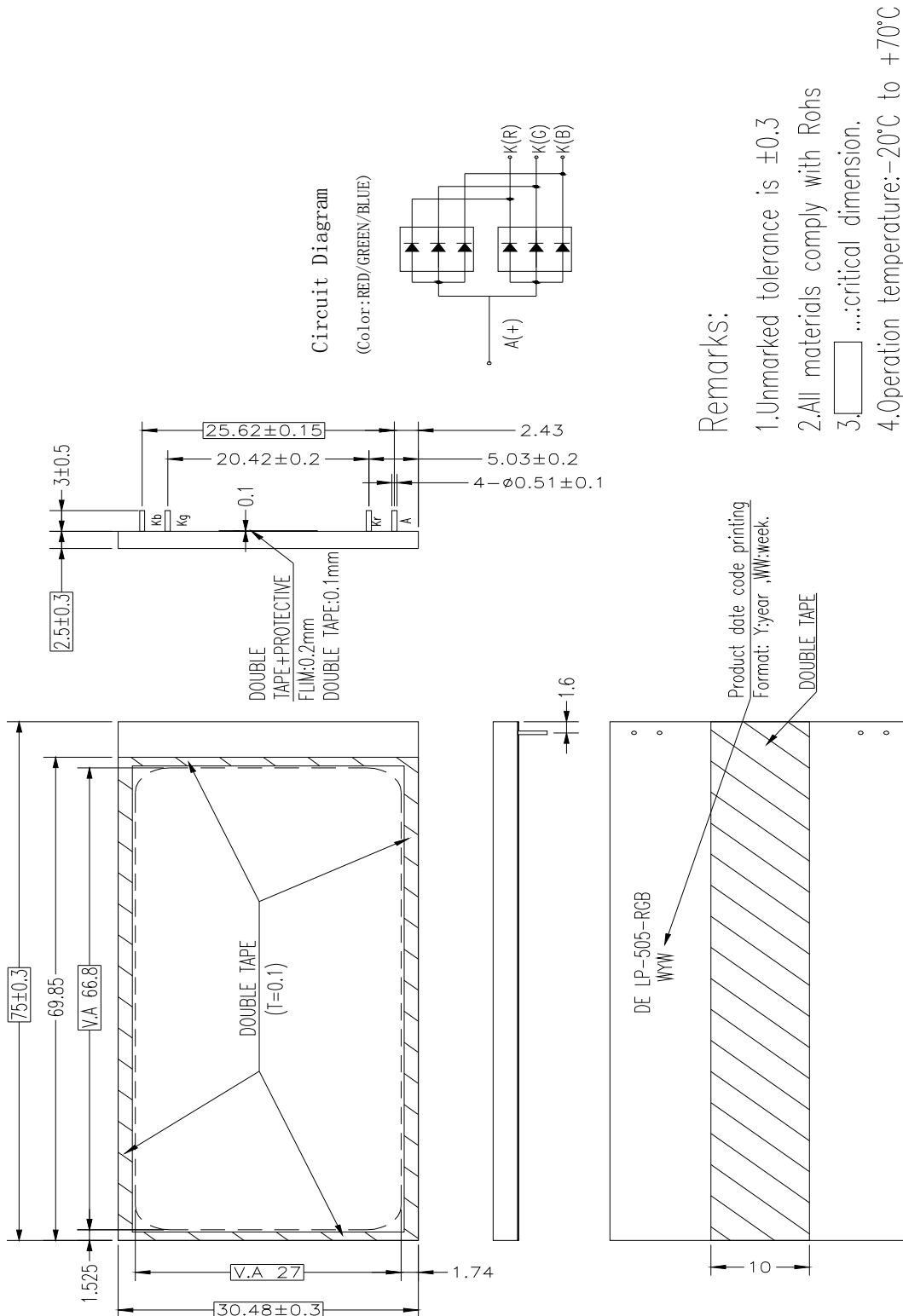
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**1. FEATURES**

Backlight Color: RGB

RoHS: Conformed

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



**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	RED			GREEN			BLUE			Unit	Condition
		MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.		
Forward Voltage	Vf	1.9	2.1	2.5	2.8	3.0	3.4	2.9	3.1	3.5	V	If=20*2 mA
Dominant Wave Length	$\lambda$ D	620	625	630	515	520	525	465	470	475	nm	
Color Chromaticity	X	—	—	—	—	—	—	—	—	—		
	Y	—	—	—	—	—	—	—	—	—		
Uniformity	Avg	65			65			65			%	
Luminance	Lv	150	250		300	425		60	130		cd/m <sup>2</sup>	
Reverse Current (Per LED)	Ir			10			10			10	$\mu$ A	Vr= 5.0 V
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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