

DISPLAY Elektronik GmbH

DATA SHEET

BACKLIGHT

DE LP-511-R

Product Specification

Version: 2

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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	2.4	V	If= 20 mA
Power Dissipation	Pd			48	mW	If= 20 mA
Luminous Uniformity	ΔLv	70			%	MIN/MAX*100%
Luminance	Lv	350	700		cd/m ²	If= 20 mA T=25°C
Dominant Wave Length	λD	600	–	625	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