Product name:

StarLightUnit NG

Description:

StarLightUnit NG (SLU) is a frequency controlled, light intensity modulated projector with three white Philips 3 Watt LEDs. Through specific programming all three LEDs can provide individual twinkle effects. The SLU can be programmed to adapt to different ambient situations. The intensity of all three LEDs can be controlled collectively by a dimming device.

Three optical fibre bundles can be connected to the SLU.

Operating Conditions

SLU has been designed to be used within aircraft cabin and to meet RCTA DO-160G.

Operating Environment:

Temperature: $-15°C <= T_{ops} <= 70°C$

Pressure: $571\ hPa <= p_{ops} <= 1070\ hPa$

The StarLightUnit must be mounted according to mounting instructions issued by E.I.S. Electronics.

List of Equipment:

Name	Part-No.
StarLightUnit	C1659 7654.LU.002

General Layout:

Milled aluminium housing with three interfaces for optical fibre bundles, power supply via Sub-D connector at the opposite side and programming adaptor on housing top, to be sealed via type plate. Four drillings in the housing bottom plate enable mounting of the SLU to the (aircraft) structure.

Power Supply:

Voltage:	22 VDC to 32 VDC
I_{max}:	350mA (at 28 VDC, measured without twinkle effect: 250mA = 7W)

Dimensions:

Length, width, height: 121 x 100 x 16 mm

Weight:

< 220 g

Material:

Housing:	34365
PCB:	Mat. FR4

Accessories (option):

StartLightPotentiometer	7654.DI.001

Appendix

RCTA-DO 160G-Criteria

Temp. & Altitude	Temp. Variation	Humidity	Shock / Crash Safety	Vibrations	Magnetic Effect	Power Input	Voltage Spike	AF cond. susc.	Induced signal susc.	RF susc.	Emission of RF energy	Lightning induced Trans. susc.	Electro-static Discharge	Flamma-bility
Sec. 4	Sec. 5	Sec. 6	Sec. 7	Sec. 8	Sec. 15	Sec. 16	Sec. 17	Sec. 18	Sec. 19	Sec. 20	Sec. 21	Sec. 22	Sec. 25	FAR
Cat. A2	Cat. C	Cat A	Cat. B	Cat. S, Curve B3	Cat. A	Cat. A	Cat. A	Cat. Z	Cat. CW	Cat. T+T	Cat. Q	B1KZLZ B1KZK1	Cat. A	25.853 (a)
Tested	Tested	Tested	Tested	Tested	Tested	Tested	Tested	Tested	Tested	Tested	Tested	Tested	Tested	Analysis