

LED SEMICONDUCTOR INFORMATION DEVICE СПИУ10А-8К, 8Ж, 4L or СПИУ9Б-8К, 8Ж, 4L

СПИУ10АБ-8К 8Ж 4L - Led information of the semiconductor device

Led semiconductor information device **СПИУ10А-6К 6G 4L or СПИУ10Б-6К 6G 4L** then the **backlight is designed to replace incandescent lamps in lighting signal Board type TSS-66M TSS-92 and TSB-220. The backlight is made of red yellow and green colors glow. Structurally, the printed circuit Board with led emitters and a circuit of electronic ballast mounted in a plastic reflector and two caps connected to the Board by four wires. Electronic ballast is used to reduce power consumption and provides the illumination of the led emitters.**

The use of this class of led emitters is focused **on the replacement of incandescent bulbs used in block shields of nuclear power plants on power on control panels and dashboards. Compared to the traditionally used incandescent bulbs with led backlight have longer life 50,000 hours vs. 2,000 for incandescent lamps and low temperature heating. Operating temperature range from - 10° to + 55° C. Led semiconductor information devices retain the performance when changing the supply voltage in the range from -15% to + 10% from the nominal value.**

The use of led scoreboard allows

- increase the service life of lighting fittings control panels
- to reduce the consumed means of displaying information, the power from batteries or rectifier unit in order
- get rid of the elements with high heat
- to reduce the complexity of the service
- remove the problem of shortage of filament lamps
- to provide uniform illumination of the working surface of a Board
- to increase the reliability.

The connection is carried out by installation of caps in lampholders incandescent **blocks of TSS. The bases are completely equivalent. The polarity does not matter.**

Remark If the blocks of TSS are connected to the generator flashing that works with a load current between 100-200 mA may need to be forced on generator flashing in continuous mode since the average current consumption of the backlight is about 10 mA which may

not be sufficient to enable the generator to blink. Lighting it is recommended to use in conjunction with electronic for example a thyristor generator.

Table of parameters and technical characteristics of the manufacture of **led semiconductor devices, information SPI**

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