Superlum Diodes Ltd. — *Pilot4-DC: +9 V DC Compact SLD Controller*

Features:

- driving of all types of cooled modules of SUPERLUM,
- stabilization of SLD temperature at any value within range of +10 degC to +40 degC, with indication of the set temperature,
- stabilization of SLD direct current at any value from 0 mA to 400 mA with indication of the set current value. Higher current ranges are available on request.
- High level of SLD protection against overloading
- Low noise

Accessories :

- Mounts for modules (DIL, BUT, TOW)
- Connecting cables
- External low pass filter

Optional : remote control of SLD status and its on/off by external logic

Stability and noise

All PILOT controllers allow excellent stability of SLD modules. Typical short-term (15 min, 22+/-0.1 degC ambient) and long-term (3 h, 22+/-0,5 degC) stability of SLD modules driven by PILOTs is 500 ppm and 3000 ppm, correspondently. No any excess noise to SLD intensity noise is added by PILOT-4 in frequency range 0,05-10 MHz; external LPF allows no excess noise starting 1 KHz frequency.

Technical parameters PILOT4-DC controllers

Current source, constant current mode		*SLD protection section*	
SLD current range*	0...400mA		
SLD voltage, maximum	3V	SLD current limit range*	5...400mA
Set resolution **	0,1mA	Set resolution**	0,1mA
Accuracy (50-400mA)	0,5mA	Accuracy (50-400mA)	1mA
TEC controller section		**PD monitor section**	
Thermistor range	6,000 ...19.999kOhm		
Stabilization T range***	10-40°C	PD monitor reverse voltage	5 V
Accuracy	0,1°C	PD monitor current range	0.....20mA
Maximum TEC current	1200mA	Display resolution	0.001mA
Maximum TEC voltage	5,0V		

- * - up to 500 mA upon request
- ** - corresponds to LCD resolution
- ***- it is considered that 10K3CG2 of BetaTherm Ltd. Thermistors are used in SLD modules

General Data

Supply voltage	9,0V±5%
Supply voltage pulsations	50 - 240 Hz 150 mV max.
Supply voltage pulsations	> 240 Hz 1 mV max.
Maximum supply current	2,0 A
Cable connectors	9 pin D-SUB
9 V DC connectors	two 4 mm 'banana' type
Operating temperature	0...+40 degC
Weight	0.7 kG

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