

0402 Spontaneous Parametric Down Conversion (SPDC)

PTC-5000-MC



Precision Temperature Controller for SPDC/SFG Module Evaluation

PTC-5000-MC is a fully integrated Precision Temperature Controller designed for Optilab's Spontaneous Parametric Down-Conversion (SPDC)/Sum Frequency Generation (SFG) 4 pins waveguide modules. It features micro controller base circuit that control TEC up to 1A current. This compact, easy to use temperature controller operates under a single +12 V power supply. PTC-5000-MC offers 0.01 °C temperature control resolution over 20 °C to 70 °C. It comes with an LCD display and a USB/RS485 port for remote control. PTC-5000-MC is designed for the development of Quantum Light Source (QLS) related applications.

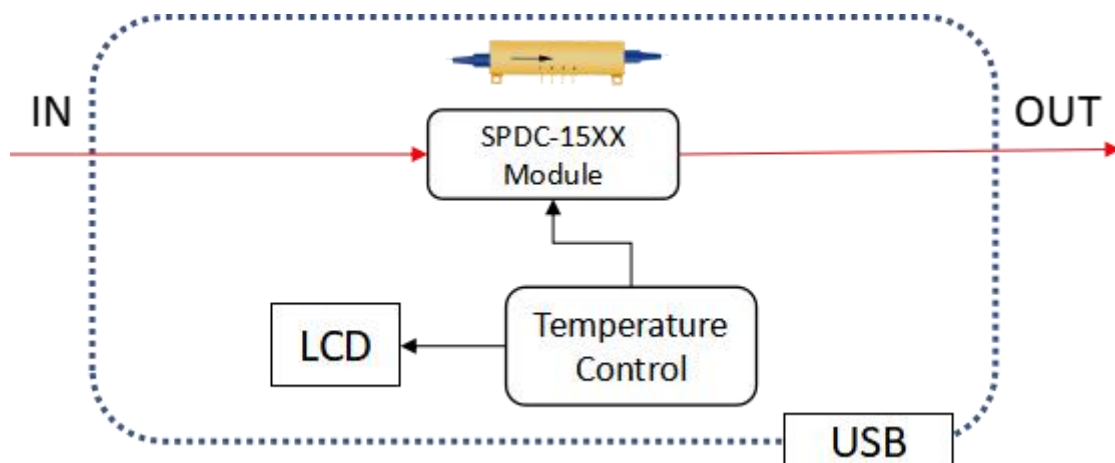
FEATURES

- Precision Temperature Control
- Built-in Temperature Controller
- High Power TEC Circuit
- On Board LCD Display
- External PC Control Capability

USE IN

- Quantum Light Source (QLS)
- SHG
- Research and Development
- SPDC
- SFG
- Quantum Photonics

FUNCTION DIAGRAM



Order notes to our customers: For special needs, please contact sales.

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TEC Temperature Setting Range	20 °C to 70 °C
TEC Setting Resolution	0.01 °C
Temperature Readback Resolution	0.01 °C
Temperature Control Accuracy	0.05 °C
TEC Power Supply	10 W max.
Operating Temperature	15 °C to +35 °C
Storage Temperature	0 °C to +60 °C
Operating Humidity	0% to 85% Relative Humidity
Communication	USB / RS-485
Dimension	142x130x56 mm
Display	LCD
Power Supply	+12 V DC, 1 A

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