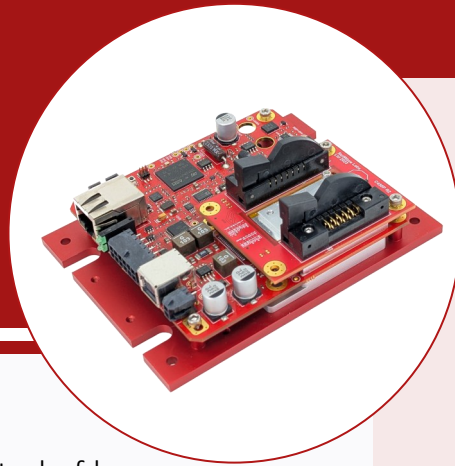


for Laboratories and Instrumentation design

DIGITAL LASER AND TEMPERATURE CONTROLLER

C450



- Laser current: 0 - 250mA
- Compliance voltage: > 4V
- Noise (RMS): < 2 μ A
- TEC current : 0 ... \pm 2.0A
- TEC voltage : > 4.5V
- Max output power: 9W
- **Digital control:** laser diode and temperature

1. Precision Laser Diode Control

Provides accurate and stable control of laser current for reliable operation.

2. Software-Driven Operation (SCPI API)

Enables straightforward configuration, control, and automation via a standardized SCPI command interface.

3. Configurable Operating Parameters

Supports adjustment of laser current, ramp rate, and operating limits to match system requirements.

4. Diagnostic Monitoring & Fault Readback

Allows real-time monitoring of system status and access to diagnostic information for fault detection.

5. Integrated TEC Temperature Control

Includes temperature regulation with configurable control parameters and status monitoring.

6. Unified Control Interface

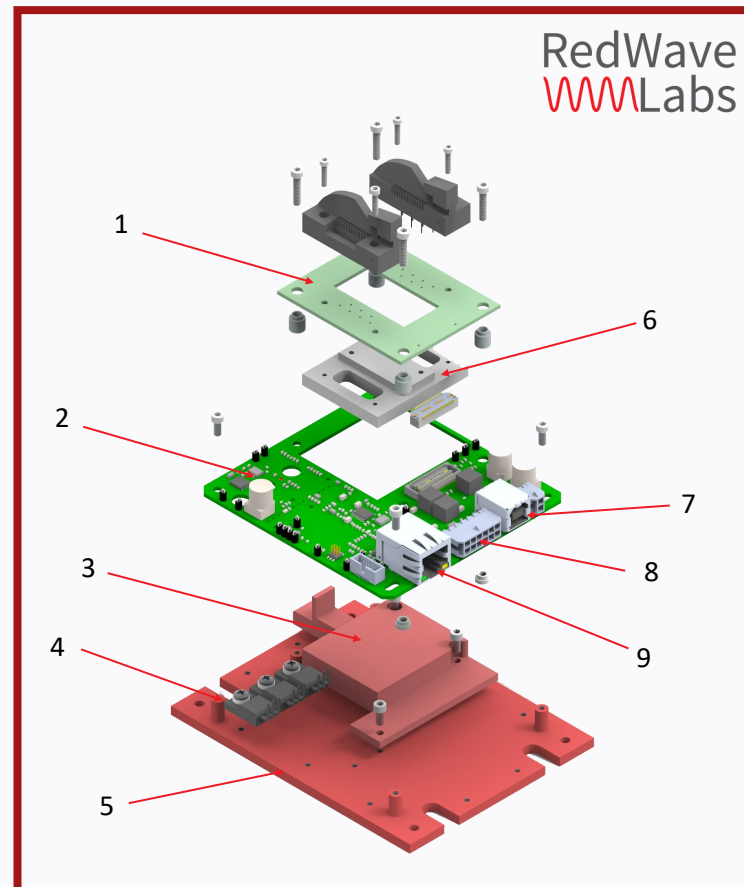
Laser and TEC functions are managed through a single software interface for simplified integration.

7. Interchangeable Laser Plugin Cards

Provides flexibility for different laser diode pin-outs and configurations.

8. Designed for OEM System Integration

Optimized for embedded platforms, production test systems, and custom instrument designs.



No	Value	No	
1	Laser PCB with OPTIONAL CONNECTORS	6	Laser Plug-in
2	Main PCB	7	USB
3	Heatsink / electrically isolated	8	Control / Monitor
4	Laser driver power delivery	9	Ethernet
5	Baseplate		