

# RFL-P20QB

## Raycus 20W Q-Switched Pulse Fiber Laser

Data Sheet V1.0

Raycus has launched its 20W Q-switched pulsed fiber laser series, an industrial-grade solution designed for marking and micro machining applications. This series of pulsed lasers is characterized by high peak power, high single-pulse energy, and optional spot diameter, making it a versatile tool for various industrial needs.



In the field of marking applications, these lasers offer a cost-effective alternative to traditional lasers, with the added advantage of more stable performance. Beyond marking, they are also well-suited for precision machining and graphic engraving, providing high-quality results across a range of tasks.

### Product Features

- Highly Stable Laser Output
- High Single-pulse Energy
- High Marking Efficiency
- Short Pulse Setup Time
- High Reliability
- Maintenance-free Operation

### Product Applications

- ◆ Material Processing
- ◆ Marking
- ◆ Deep Carving
- ◆ Cleaning
- ◆ Precision Welding
- ◆ Micro-Processing
- ◆ Metal Film Cutting & Piercing
- ◆ Metal Drawing
- ◆ Texturing
- ◆ Silicon Processing
- ◆ Resistance Adjustment
- ◆ ITO Film Etching

## Technical Specifications

Central wavelength	1060~1085 nm	Output power tunability	10-100 %
Average output power	20 W	Output fiber cable length	3.0 M
Polarization	Random	Working voltage	24±1 VDC
Optical isolator	Yes	Power consumption	200 W @20°C
Single pulse energy	1 mj @20kHz	Cooling	Forced Air Cooled
Beam quality	<1.5 m <sup>2</sup>	Dimension W×D×H	215×95×280 mm
Beam diameter (mm)	7±1 mm	Operating temperature	0~40 °C
Pulse duration	90-110 ns @20kHz	Store temperature	-20~60 °C
Pulse repetition rate	20 - 60 kHz	Operating humidity	≤80%

## Product Dimensions

