

# NANOPEAK 20

## 20W MOPA Nanosecond Pulsed Fiber Laser



### Features & Benefits

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- Unique phosphosilicate gain fiber technology – **photodarkening-free performances** guarantee long-term stability
- Adjustable delivery cable available up to 5 m – better flexibility and integration into your production line
- Range of pulses for various applications – offers **flexibility** and complete control
- Pulse waveform selection – pulse widths from 4 to 200 ns
- Output turndown of 5% – offers great flexibility
- Wide range of repetition rates – allows **maximum peak power and pulse energy** for each waveform setting
- Excellent isolator design – safe processing of any material
- Maximum pulse energy: 1 mJ
- Maximum peak power: 15 kW
- Compact and robust – enhancing the ease of OEM integration
- Easy-to-use, Plug & Play design
- Maintenance-free
- 3-year standard warranty

### Applications

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- Laser marking and engraving
- Fine cutting
- Laser layer removal

Please note that the product may differ slightly from the image.

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### Specifications

#### Optical

Mode of Operation	Pulsed
Polarization	Random
Operating Wavelength (nm)	1064
Nominal Output Power (W)	20.5 ± 1.0
Power Stability (%)	< 3
Output Power Tuning Range (%)	5 - 100
Maximum Peak Power (kW)	15
Maximum Peak Energy (mJ)	1.0
Pulse Width Range (ns)	4 - 200
Repetition Rate Range (kHz)	1.6 - 1000
Beam Quality (M <sup>2</sup> )	1.6 ± 0.4
Beam Diameter (mm)	6 - 9
CW Mode	No
Red Alignment	Yes
Laser on Time (µm)	1

#### Pulse Repetition Rate (PRR)

Pulse Width (ns)	Minimum PRR (kHz)	Maximum PRR (kHz)	Central PRR (kHz)
4	1.6	1000	500
8	1.6	1000	250
14	1.6	1000	170
20	1.6	1000	140
30	1.6	1000	110
50	1.6	1000	90
100	1.6	1000	40
200	1.6	500	20

#### Electrical

Operating Voltage (VDC)	24 ± 1
Operating Current (A)	< 5

#### Mechanical & Environmental

Dimensions (W x D x H mm)	292 x 235 x 72
Output Fiber Length (m)	2.0 - 2.5
Output Cable Diameter	6 - 8
Warm-up Time (sec)	10
Operating Temperature (C°)	15 - 35
Operating Humidity (% rel.)	10 - 95
Cooling Method	Air Cooled

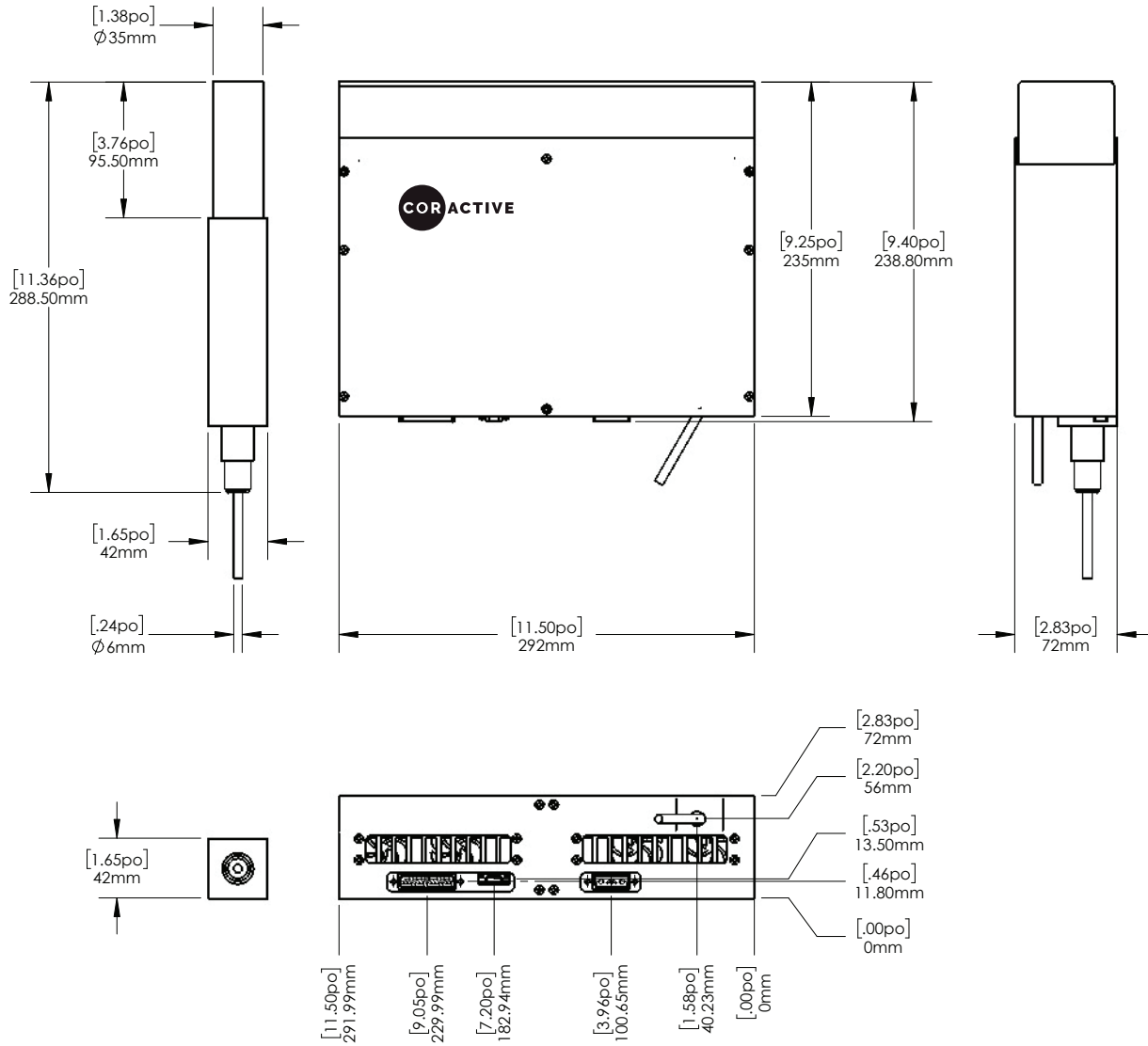
This product is CE compliant.  
All specifications are subject to change without notice. Reference: 100-71-0001

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## Drawing



This product is CE compliant.  
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