

NANOPEAK 20SM

20W Single-Mode MOPA Nanosecond Pulsed Fiber Laser



Features & Benefits

- Single-mode output operations
- 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
- Generates small spot sizes ($M^2 < 1.3$) – ideal for micromachining
- Excellent isolator design – safe processing of any material
- Maximum pulse energy: 0.7 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

- 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)	0.7
Pulse Width Range (ns)	4 - 200
Repetition Rate Range (kHz)	1.6 - 1000
Beam Quality (M ²)	< 1.3
Beam Diameter (mm)	6 - 9
CW Mode	No
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	650
8	1.6	1000	280
14	1.6	1000	170
20	1.6	1000	140
30	1.6	1000	110
50	1.6	1000	90
100	1.6	1000	60
200	1.6	500	28

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 - 45
Operating Humidity (% rel.)	10 - 95
Cooling Method	Air Cooled

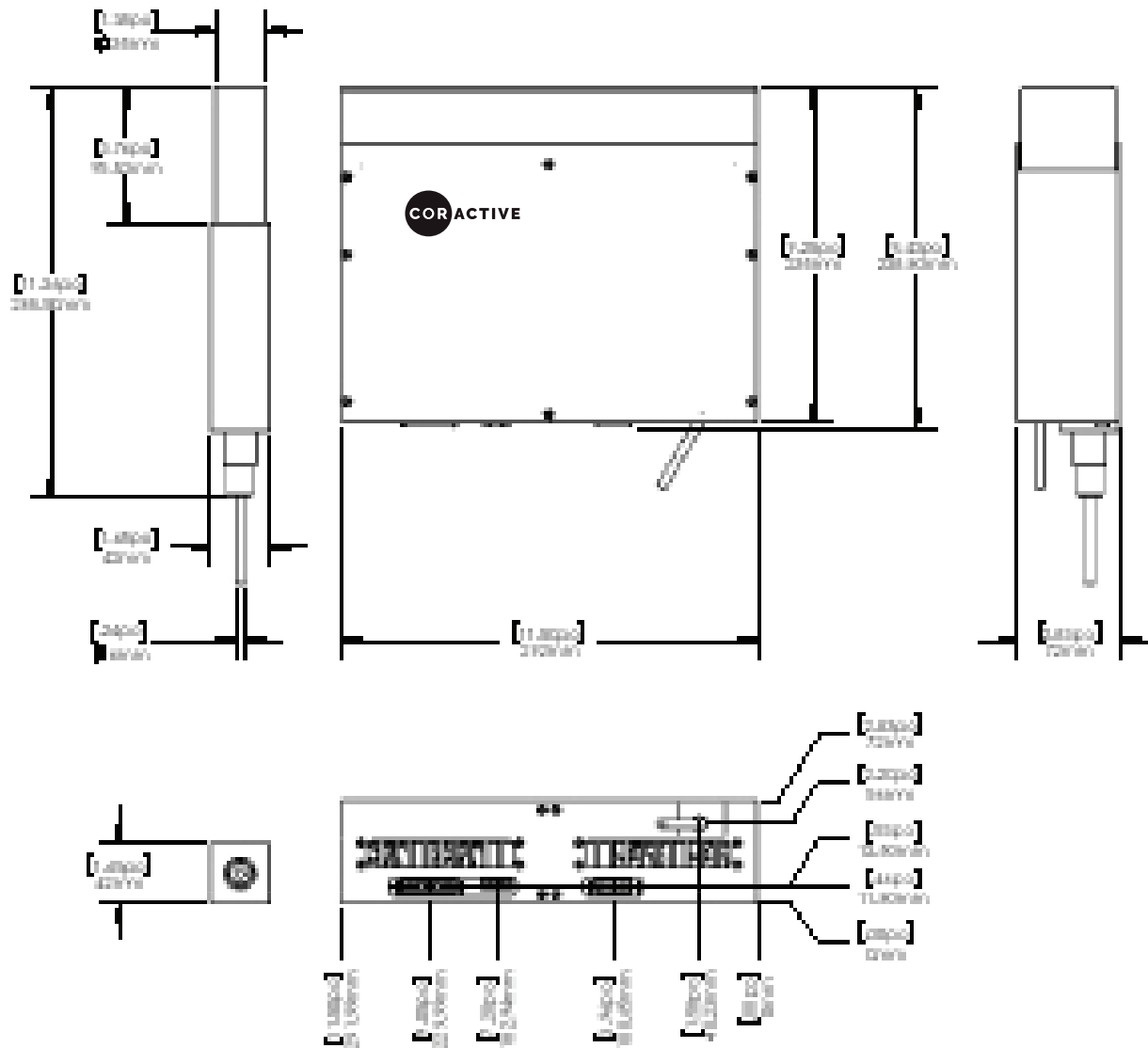
This product is CE compliant.
All specifications are subject to change without notice. Reference: 100-71-0006

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Drawing



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