

NANOPEAK 70

70W MOPA Nanosecond Pulsed Fiber Laser



Features & Benefits

- Unique phosphosilicate gain fiber technology – **photodarkening-free performances** guarantee long-term stability
- Higher power – faster processing
- Range of pulses for various applications – offers **flexibility** and complete control
- Pulse waveform selection – pulse widths from 2 to 500 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

- Laser marking and engraving
- Fine cutting
- Laser layer removal
- Low heat spot welding

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) | 69.5 ± 1.5 |
| Power Stability (%) | < 5 |
| Output Power Tuning Range (%) | 5 - 100 |
| Maximum Peak Power (kW) | 15 |
| Maximum Peak Energy (mJ) | 1.0 |
| Pulse Width Range (ns) | 2 - 500 |
| Repetition Rate Range (kHz) | 1.6 - 3000 |
| Beam Quality (M ²) | 1.6 ± 0.4 |
| Beam Diameter (mm) | 5 - 9 |
| CW Mode | Yes |
| Red Alignment | Yes |
| Laser on Time (µm) | 1 |

Electrical

| | |
|-------------------------|--------|
| Operating Voltage (VDC) | 24 ± 1 |
| Operating Current (A) | < 11 |

Mechanical & Environmental

| | |
|-----------------------------|------------------|
| Dimensions (W x D x H mm) | 364 x 273 x 84.5 |
| Output Fiber Length (m) | 2.0 - 3.0 |
| Output Cable Diameter (mm) | 6 - 8 |
| Warm-up Time (sec) | 10 |
| Operating Temperature (C°) | 15 - 35 |
| Operating Humidity (% rel.) | 10 - 95 |
| Cooling Method | Air Cooled |

Pulse Repetition Rate (PRR)

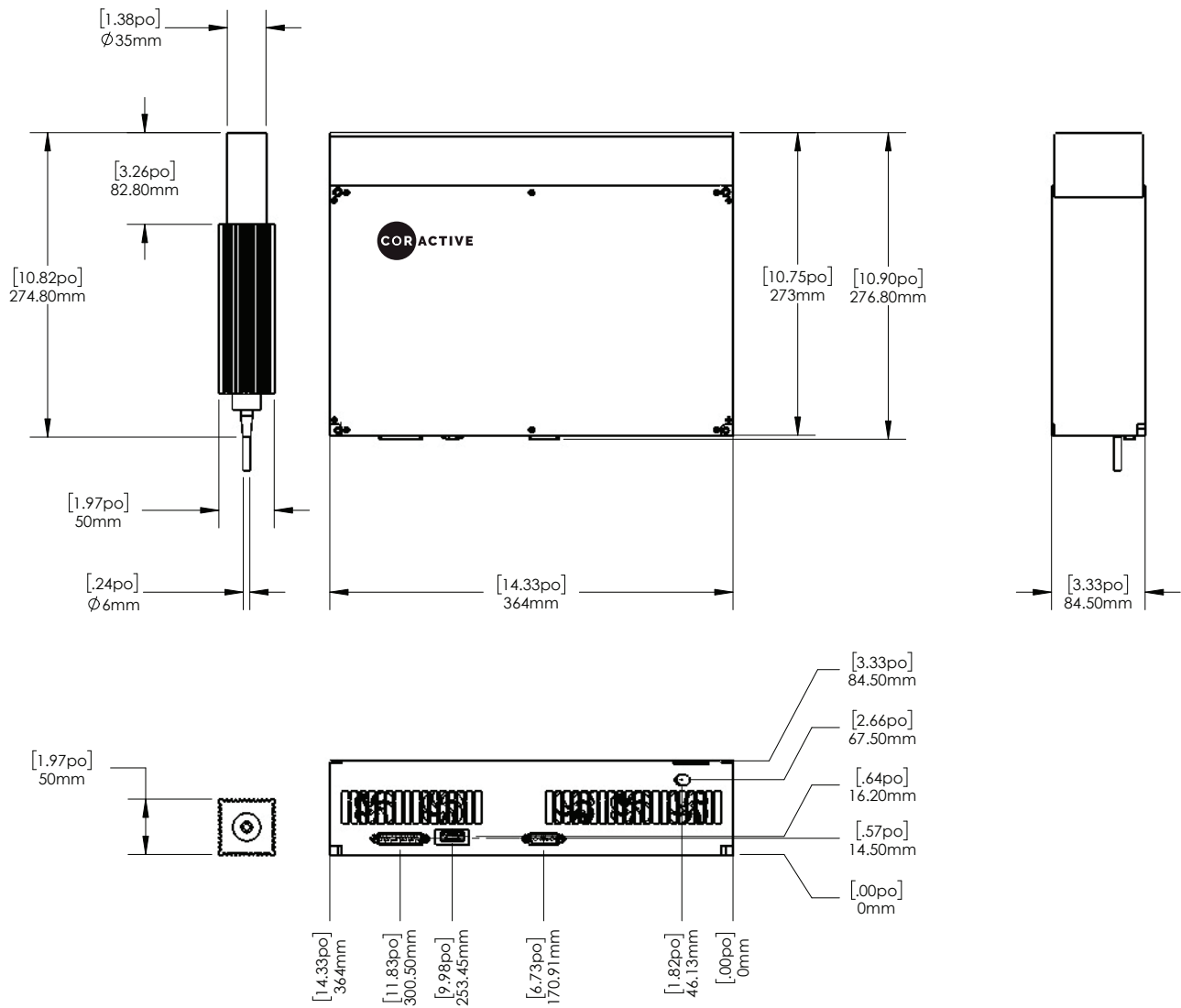
| Pulse Width (ns) | Minimum PRR (kHz) | Maximum PRR (kHz) | Central PRR (kHz) |
|------------------|-------------------|-------------------|-------------------|
| 2 | 1.6 | 3000 | 3500 |
| 4 | 1.6 | 3000 | 1750 |
| 8 | 1.6 | 3000 | 875 |
| 14 | 1.6 | 3000 | 595 |
| 20 | 1.6 | 2000 | 490 |
| 30 | 1.6 | 2000 | 385 |
| 50 | 1.6 | 2000 | 315 |
| 60 | 1.6 | 2000 | 260 |
| 80 | 1.6 | 2000 | 175 |
| 100 | 1.6 | 1000 | 140 |
| 150 | 1.6 | 500 | 100 |
| 200 | 1.6 | 500 | 70 |
| 250 | 1.6 | 200 | 70 |
| 350 | 1.6 | 200 | 70 |
| 500 | 1.6 | 200 | 70 |

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Drawing



This product is CE compliant.
 All specifications are subject to change without notice. Reference: 100-71-0004