

LPH-SMA-R-18-75

Laser Process Head for advanced Material Processing

LIMO

Lissotschenko Mikrooptik



| Laser Material Processing |

Your product benefits:

- Optimized beam shaping for your application

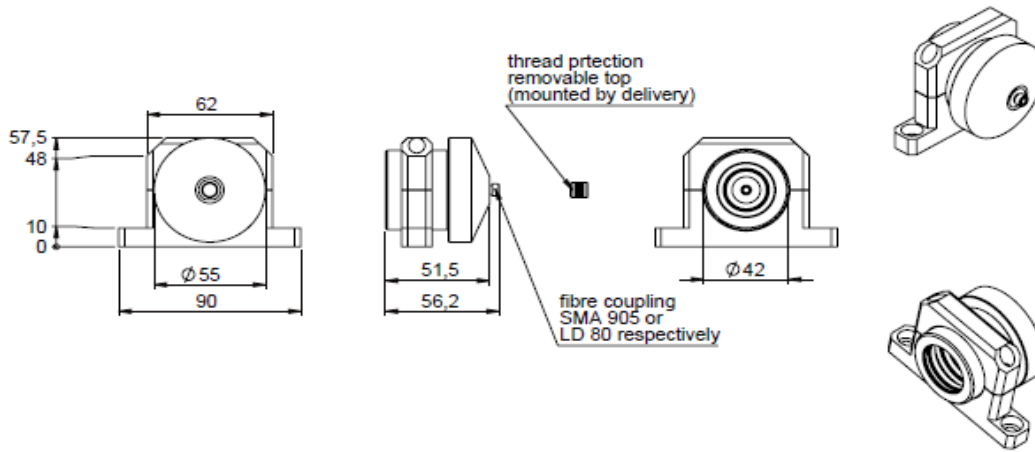
| Laser Process Head | Unit | Value | Unit | Value |
|---------------------------------------|------|------------------------|---|-------------------|
| Optical Data | | Mechanical Data | | |
| Max. laser power (cw) | W | 120 | Housing material | anodized aluminum |
| Wavelength range | nm | 800 - 1000 | Dimensions (length x width x depth) | mm 57.5x90x56.2 |
| Max. numerical aperture of fibre | | 0,23 | Mounting threads | 4 x M5 |
| Max. fiber core diameter | µm | 600 | Fiber connector types | SM905 |
| Transmission rate | | ≥ 90% (typ. 95 %) | Thermal Operation and Storage Conditions | |
| Collimation focal length | mm | 18 | Operation ambient temperature range | °C 5...40 |
| Focussing focal length | mm | 75 | Max. operation relative humidity | non condensing |
| Working distance | mm | 55 (± 5) | Storage temperature range | °C 20...50 |
| Spot size FWHM with 200 µm fibre | µm | 840 | Storage max. relative humidity | non condensing |
| Spot size (90% PE*) with 200 µm fibre | µm | 1300 | Max. housing temperature in operation | °C 60 |
| Spot size FWHM with 400 µm fibre | µm | 1680 | | |
| Spot size (90% PE*) with 400 µm fibre | µm | 2100 | | |

* PE means power enclosed

| Additional Features | Unit | Value | Unit | Value |
|--|------|------------------------------|-----------------------------|-------------------|
| Pyrometer Control Data | | Power Monitoring Data | | |
| Detection wavelength | nm | not available | Wavelength range | nm not available |
| Temperature measurement range | °C | not available | Sampling rate (standard) | kHz not available |
| Sampling rate (standard) | kHz | not available | Operation temperature range | °C not available |
| Calibration standard type | | not available | Measurement accuracy | % not available |
| Interfaces Data | | Related Product | | |
| Interface type | | not available | Process software | not available |
| Data cable type | | not available | | |
| Socket type | | not available | | |
| Communication protocol of laser driver | | not available | | |

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