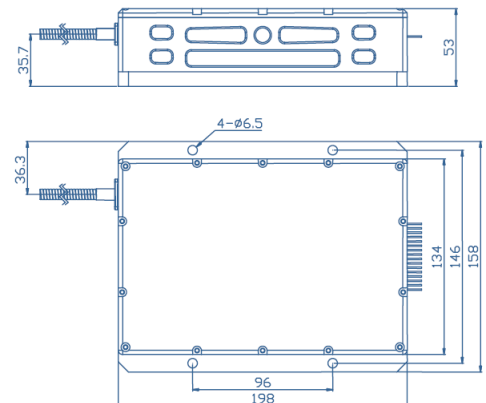
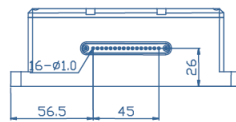


| Model | | M450±10-50-F100/22-V5A-AP | | |
|------------------------------------|------|---------------------------|-----------|------|
| Optical | Unit | Min | Typical | Max |
| Output power (exit fiber) | W | | 50.0 | |
| Centroid wavelength | nm | 440 | 450 | 460 |
| Spectral width (FWHM) | nm | | 6.0 | |
| Fiber | | | | |
| Core diameter | µm | 98 | 100 | 102 |
| Numerical aperture | - | 0.20 | 0.22 | 0.24 |
| Length | m | | 1 - 5 | |
| Connector | - | | SMA905 | |
| Electric * | | | | |
| Threshold current | A | | 0.60 | |
| Operating current | A | | 3.00 | 3.50 |
| Operating voltage | V | | 65.0 | |
| Slope efficiency | W/A | | 18.0 | |
| Power conversion efficiency | % | | 22.0 | |
| Accessories | | | | |
| Thermistor | kΩ | | 10k@25°C | |
| Red pilot power | - | | 2mW | |
| Absolute Ratings | | | | |
| Operating (thermistor) temperature | °C | | 20 - 25 | |
| Operating humidity | % | | < 75 | |
| Storage temperature | °C | | -20 – +80 | |
| Storage humidity | % | | 90 | |

* Measured on 20°C cooling plate

| Pinouts | | | |
|---------|------------|----|-----------------|
| 1 | LD Anode | 9 | Red pilot +5VDC |
| 2 | LD Cathode | 10 | Red pilot GND |
| 3 | NC | 11 | Thermistor |
| 4 | NC | 12 | Thermistor |
| 5 | NC | 13 | NC |
| 6 | NC | 14 | NC |
| 7 | NC | 15 | Photodiode N |
| 8 | NC | 16 | Photodiode P |



Compliance with Regulatory Requirements: This industrial laser is an OEM version of a laser diode. As such, it is intended only for integration into other equipment. This laser does not comply with IEC and CDRH requirements. The customer is responsible for IEC and CDRH certifications of the system that incorporates this industrial laser.



Spectrum

