

Preliminary



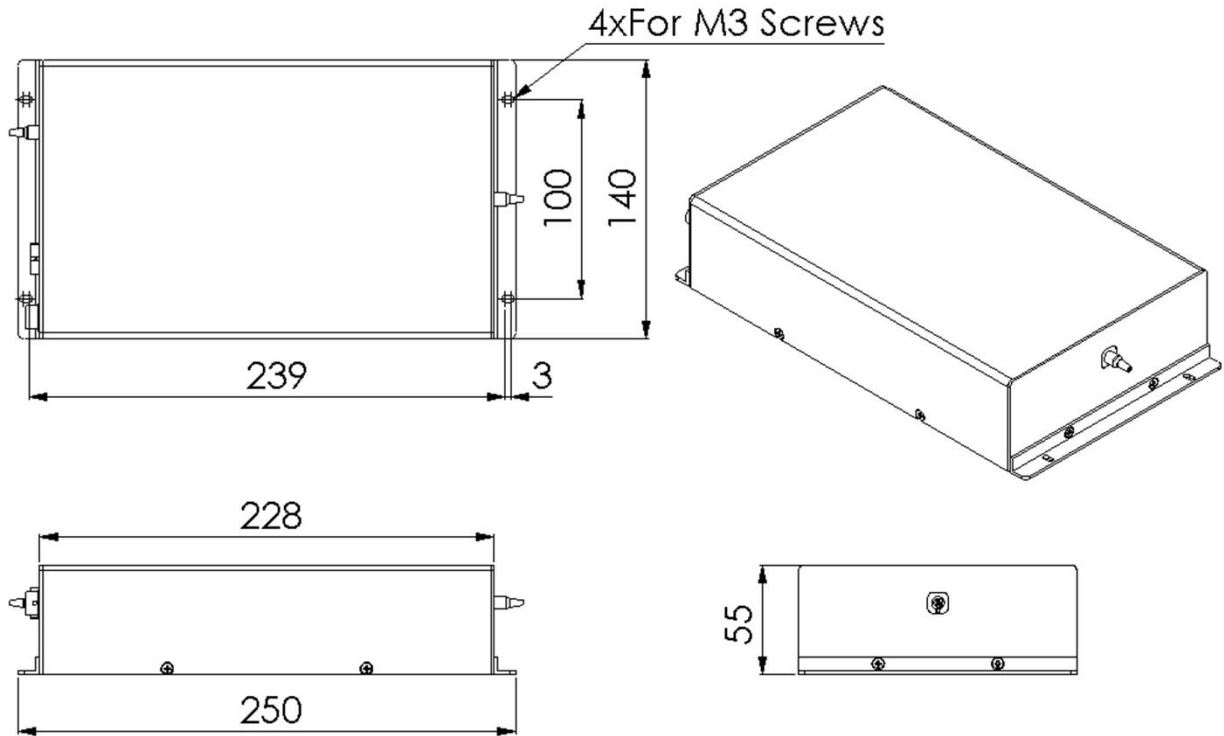
- Plug & play
- Continuous wavelength tuning for your selected wavelength bands (e.g. C/L/C+L)
- Optional fiber-in/fiber-out (1X1) or fiber-in/free-space-out (1X0)

Reference Specification sheet

| Optics (General) | | unit | Specification | | | Note |
|--|-----|------|--|---------|---------|------|
| Mixer Type | | | Tunable Second Harmonic Generation (SHG) | | | |
| Mixer Pigtailling Type | | | 1X1 | | | |
| Input Wavelength | nm | | 1530 ~ 1590 | | | [1] |
| Output Wavelength | nm | | 765 ~ 795 | | | [1] |
| Input Fiber, Connector | | | PM1550, None | | | |
| Output Fiber, Connector | | | PM850, None | | | |
| Specified pump power | W | | 13 | | | |
| Pump condition | | | CW, Single longitudinal mode | | | [2] |
| Optics (output) | | unit | Minimum | Typical | Maximum | Note |
| Output power @ specified pump | W | | 1 | 1.1 | | |
| Residual IR/output power rejection ratio | dB | | 40 | 45 | | |
| Output polarization state | | | linear @ slow axis | | | |
| Output PER | dB | | 18 | 20 | | |
| Back reflection of IR wavelength | dB | | | -45 | -42 | |
| Mechanics | | unit | Specification | | | Note |
| Housing dimension (L*W*H) | mm | | 250x140x55 | | | |
| Electrics | | unit | Minimum | Typical | Maximum | Note |
| Electrical connector | | | Hiroshi HR 10G-10P(73) & RP17-13PA-12PC | | | [3] |
| Thermoelectric cooler | | | 8.7V, 4A maximum, Qc = 18 W | | | |
| NTC Thermistor resistance@25°C | kΩ | | 10 | | | |
| Thermistor B vale (B25/85) | K | | 3478 | | | |
| PD response | V/W | | 0.8 | 1 | 1.2 | [4] |
| PD response linearity | % | | | 2 | 5 | [5] |
| Environment | | unit | Minimum | Typical | Maximum | Note |
| Storage temperature (no humidity) | °C | | -20 | - | 70 | |
| Operating temperature range | °C | | 10 | 25 | 35 | |
| Operating relative humidity (non condensing) | %RH | | 0 | - | 85 | |

[1] Different wavelength possible upon request
 [2] Efficiency will be better for narrow linewidth multimode pump
 [3] For temperature control and chip position adjustment
 [4] Will be slightly different upon different wavelength
 [5] Defined by the range from 20% to full power

- Mechanical drawing



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