

Order number/ Artikelnummer ST-FP-Mvnano
Module/ Bezeichnung ST-FP-Mvnano Vorlage/Datenblatt

Basic properties/ Allgemeine Eigenschaften:

Spectral range/ Wellenlänge 405nm, 450nm, 520nm, 532nm, 635-640nm,
650-660nm, 785nm, 850nm
(others wavelength on request)

Output power/ Ausgangsleistung 1mW-100mW (depending on wavelength)

Operating voltage/ Versorgungsspannung 4,5-30V (5-30V for 532nm | 10-30V for 405/450/520nm);
(405/450/520nm available with 5V electronics)

Current consumption/ Stromverbrauch < 200mA (supply current)

Operating temperature/ Betriebstemperatur 0° bis +50°C (case temperature, depending on wavelength)

Storage temperature/ Lagertemperatur -20°C bis +60°C (depends on wavelength)

Modulation/ Modulation digital (low active, 0 - 10kHz, higher frequency on request),
analog (low active by control wire 0-5V or by ext. Potentiometer)

Power stability/ Leistungsstabilität ≤ 5% (after warm up at 25°C)

Wavelength stability: <0.25nm / °C

Beam properties/ Optische Eigenschaften:

Beam profile/ Strahlcharakteristik laser line with uniform power distribution
(TS version and FOV correction available)

Focus distance/ Fokussabstand adjustable by Allen key

Boresight deviation/ Strahlrichtungsfehler ≤10 mrad (≤3 mrad as option)

Pointing stability/ Punktstabilität ≤10μrad/°C (improved pointing stability as option)

Fan angle/ Öffnungswinkel 5, 10, 15, 20, 30, 45, 60, 75, 90 deg.

Line thickness/ Liniendicke Standard, DL, DLE, DLSE, TS1, TS2
(only Standar and DL for 532nm)

Line intensity variation/ Homogenität ± 20 % (opt. ± 10 %) related to average power (within 80% of the

Line straightness/ Geradheit ± 0,1 % (±0,05 as option)

Mechanical properties/ Mechanische Eigenschaften:

Housing material/ Gehäusematerial Aluminum (blue anodised; potential free)

Housing size/ Abmessungen Ø=11,5 × l=60mm (l=70 mm for 405/450/520nm | l=90 mm for
532nm)

Pin defintion/ Anschlussbelegung Bronw: +VDC, Blue: GND, Black: modulation
3 core cable, 2 m length, wires tin-coated at ends

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