Datasheet/ Datenblatt

Order number/ Artikelnummer	FP-MVmicro2017-ST-F
Module/ Bezeichnung	FP-MVmicro2017-ST-F-Vorlage/Datenblatt

Basic properties/ Allgemeine Eigenschaften:

Spectral range/ Wellenlänge	405nm, 450nm, 520nm, 635-640nm, 650-660nm, 685nm, 785nm, 850nm (others wavelength on request)
Output power/ Ausgangsleistung	1mW-100mW (depending on wavelength)
Operating voltage/ Versorgungsspannung	4,5-30V (10-30V for 405/450/520nm); (405/450/520nm available with 5V electronics on request)
Current consumption/ Stromverbrauch	< 200mA (supply current)
Operating temperature/ Betriebstemperatur	-20° 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, highter frequency on request), analog (low active by control wire 0-5V)
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 (thin lines, TS version and FOV correction available)
Focus distance/ Fokussabstand	adjustable by pin tool (see instruction manual for details)
Boresight deviation/ Strahlrichtungsfehler	≤10 mrad (≤3 mrad as option)
Pointing stability/ Punktstabilität	≤10µrad/°C (improved pointing stabillity as option)
Fan angle/ Öffnungswinkel	5, 10, 15, 20, 30, 45, 60, 75, 90 deg.
Line thickness/ Liniendicke	Standard, DL, DLE, DLSE, TS1, TS2
Line intensity variation/ Homogenität	± 20 % (opt. ± 10 %) related to average power (within 80% of the line)
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=19 × l=65mm
Pin defintion/ Anschlussbelegung	M12 conector| Pin1: +VDC, Pin3, GND, Pin2: dig. modulation, Pin4: anl. Modulation
Laser class/ Laserklasse	DIN EN 60825-1:2014

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