

Order number/ Artikelnummer ST-FP-MVsqu15-FIX
Module/ Bezeichnung ST-FP-MVsqu15-FIX Datenblatt

Basic properties/ Allgemeine Eigenschaften:

Spectral range/ Wellenlänge	405nm, 450nm, 520nm, 635-640nm, 650-660nm, 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)
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, 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
Redirection (1.st "R"):	0°, 90°
Rotation (2.nd "R"):	0°, 90°

Beam properties/ Optische Eigenschaften:

Beam profile/ Strahlcharakteristik	laser line with uniform power distribution (TS version and FOV COS correction available)
Focus distance/ Fokussabstand	factory focused at customers specification
Boresight deviation/ Strahlrichtungsfehler	Pitch (Nickwinkel) ≤20mrad Yaw (Gierwinkel) ≤20mrad Roll (Rotation) ≤10mrad
Pointing stability/ Punktstabilität	≤10μrad/°C (improved pointing stability as option)
Fan angle/ Öffnungswinkel	5, 10, 15, 20, 30, 45, 60 deg. (other fan angles on request)
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)

GESCHÄFTSFÜHRER Dr.-Ing. Ingmar Blau,
Dipl.-Ing. (FH) Eugen Romasew
Telefon +49 (0) 7551/93748-0
Telefax +49 (0) 7551/93748-29
E-MAIL info@blauoptoelektronik.de
WEB www.blauoptoelektronik.de
HANDELSREGISTER: Freiburg HRB 580681 UST-
IDNR. DE 169489277

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Rev 2

Mechanical properties/ Mechanische Eigenschaften:

Housing material/ Gehäusematerial	Aluminum (blue anodised; potential free)
Housing size/ Abmessungen	15×15×65mm (mechanical interface: 4x M2 threaded holes, 3mm deep)
Pin defintion/ Anschlussbelegung	Brown: +VDC, Blue: GND, Black: modulation 3 core cable, 2 m length, wires tin-coated at ends