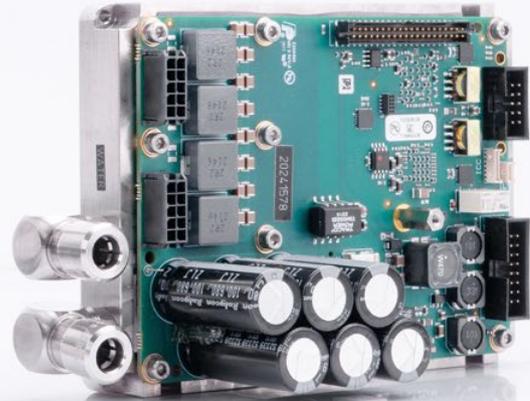


**NEW**



**excelliDRILL – high performance drilling**



## Key Features

- Outstanding drilling rates are made possible by significantly reduced step response times
- New motor design with improved thermal management
- Lightweight beryllium mirrors
- Digital dyn*AXIS*<sub>se</sub> encoder technology
- Automatic jump delay setting for all jump lengths <sup>(1)</sup>

## Typical Applications

- PCB industry
- Via hole drilling
- High density interconnects (HDI)

## Specifications

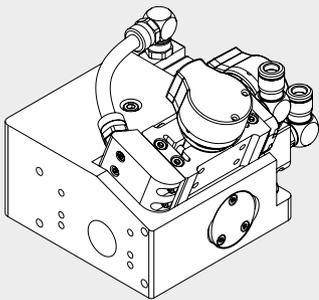
Aperture	20 mm
Maximum scan angle <sup>(2)</sup>	± 0.349 rad
Wavelength <sup>(3)</sup>	9400 nm
Step response (positioning and settling to ±5 µm at 100 mm focal length)	0.13 ms at 0.2 mm 0.22 ms at 0.5 mm 0.29 ms at 1 mm
Temperature drift <sup>(2)</sup>	Offset: < 10 µrad/K Gain: < 5 ppm/K
Long-term drift <sup>(2)</sup> (8-hour-Drift after 30 min warm-up, at constant ambient temperature and load)	Offset: < 50 µrad Gain: < 50 ppm
Power supply requirements	48 V, 3 A (RMS)
Water cooling requirements	3 l/min at 20 °C and Δp < 1 bar, p < 4 bar

<sup>(1)</sup> RTC6 control board required

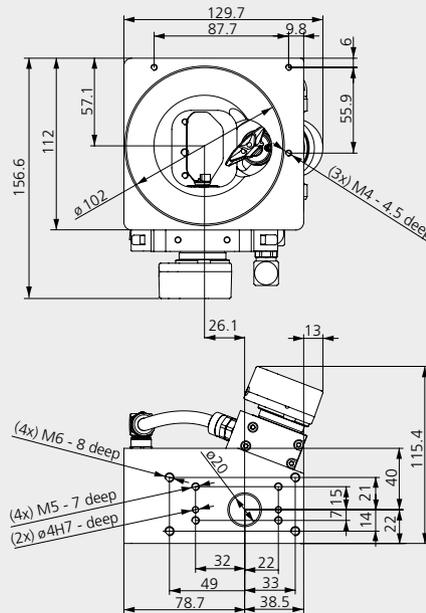
<sup>(2)</sup> all angles are optical angles

<sup>(3)</sup> others on request

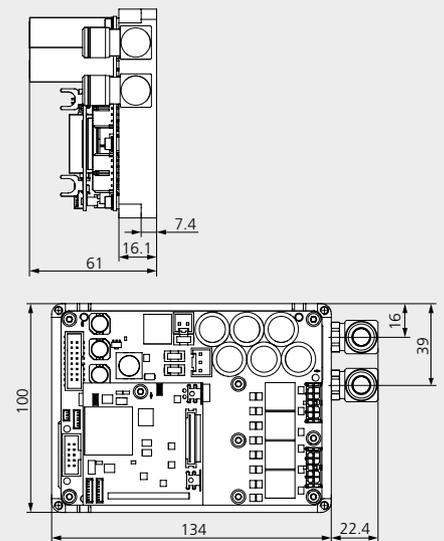
excelliDRILL Module Layout



excelliDRILL Module Dimensions



Digital ISB Servo Board Dimensions



all dimensions in mm