



Good Things

come in small

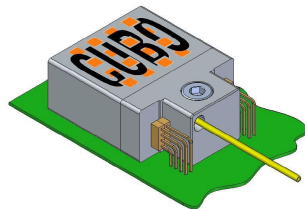
CUBES

Cube Optics AG introducing
Detector Cubes

What is a Detector Cube?



**compact
&
simple**



CUBO transfers
Wavelength selective devices

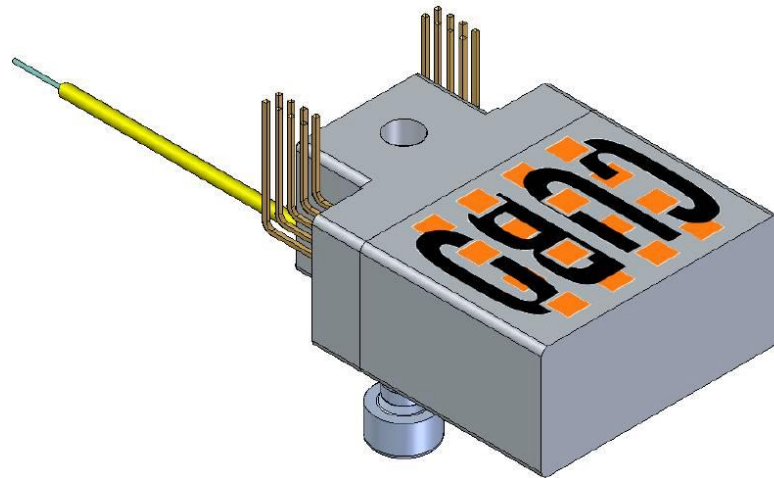
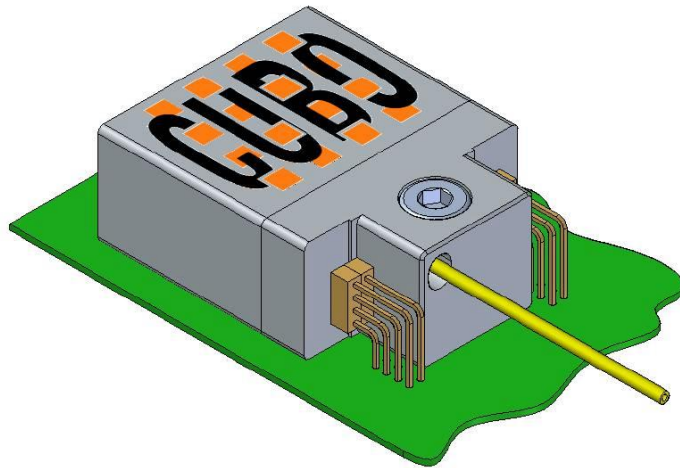
plus

Opto-Electronic signal conversion

into

parallel wavelength selective O/E conversion

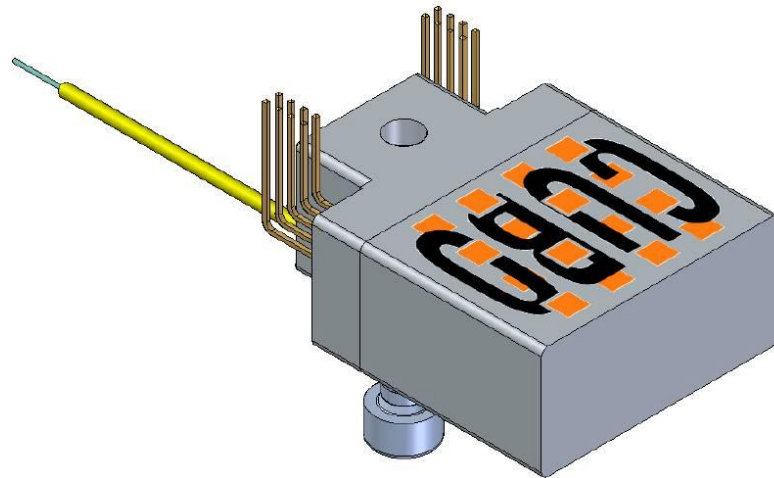
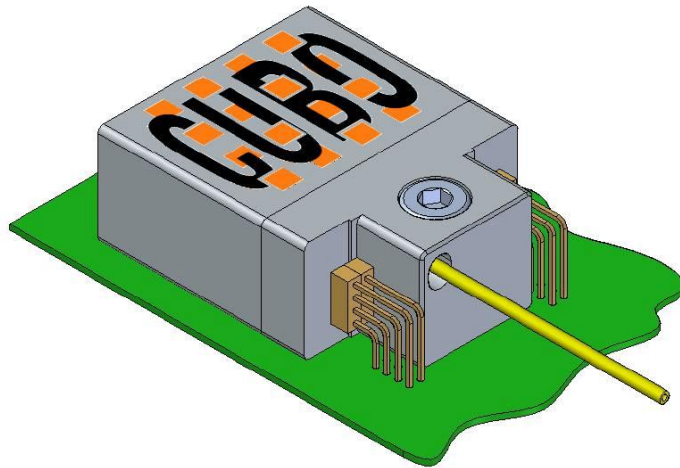
Detector Cube



Applications

- Test & Measurement
- Handheld devices
- Spectroscopy (Raman-, Fluorescence,...)
- Concentration Measurements
- A viable alternative to Color-Wheels
- Parallel multi-channel O/E conversion
- Optical performance monitoring in W-WDM and C-WDM

Detector Cube



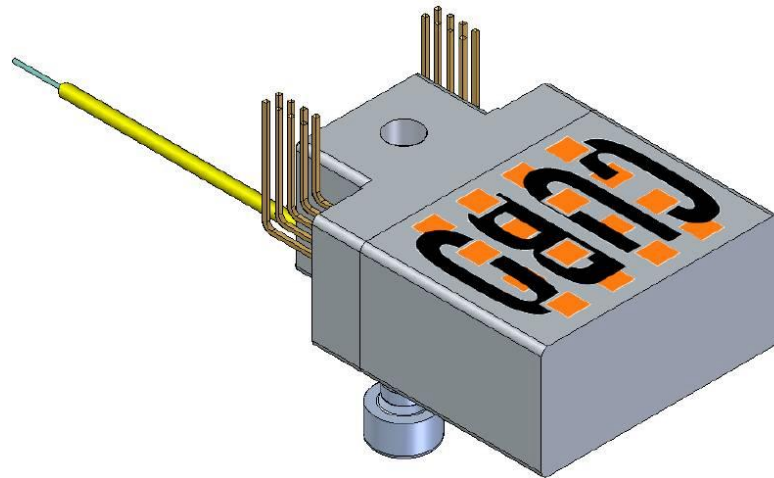
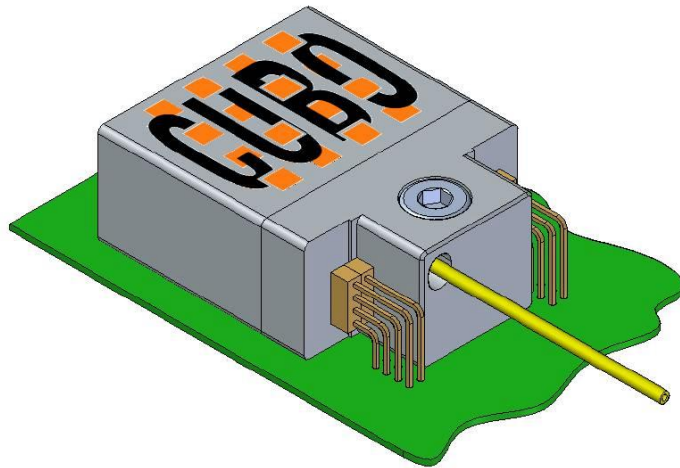
Features

- Opto-electronic interface with detectors
- Up to 8 InGaAs PIN diodes, 1260 – 1620 nm
- Simplifies Fiber Management
- Saves board space
- PCB mountable
- Reliable – no moving parts
- Epoxy free optical path
- RoHS compliant per EU Directive
- UL 94 V0 flammability rating

Further Options

- Si PIN diodes
- Avalanche photo diodes APD
- 600 – 1600 nm
- 400 – 1800 nm extended range

Detector Cube

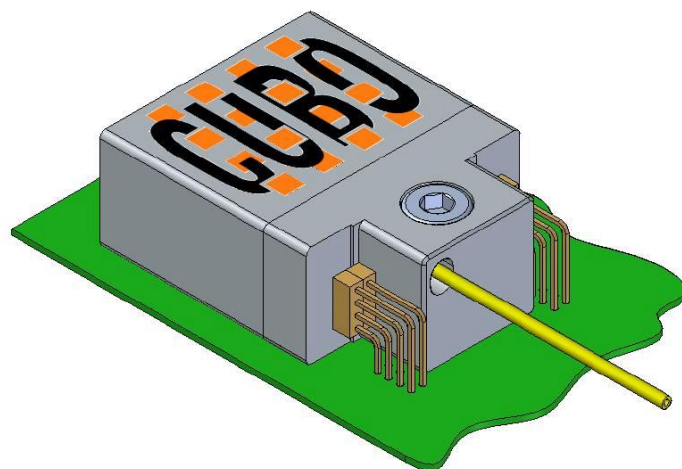


Preliminary Performance **

- Supports SMF-28, GI-50 or GI-62.5 fiber
- InGaAs PIN chip including CUBO Demux
Responsivity 0.60 A/W @ 1310 nm
 0.65 A/W @ 1550 nm
- Dark current max. 1 nA @ 25°C
- Cut-off frequency 100 MHz, DC-coupled
optional: > 500 MHz
- Operation Temp. 0°C to +70°C
optional: -40°C to +85°C

*** Parameters will be adjusted to market requirements without notice, please refer to the product datasheet*

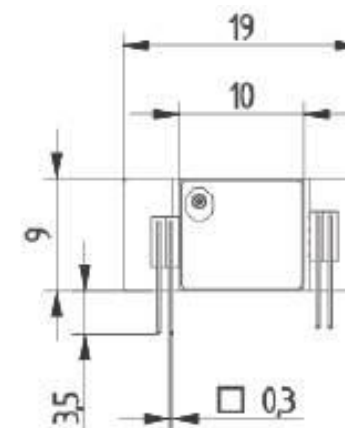
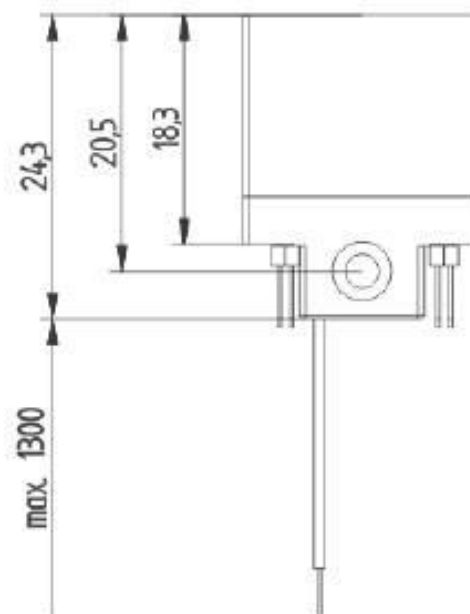
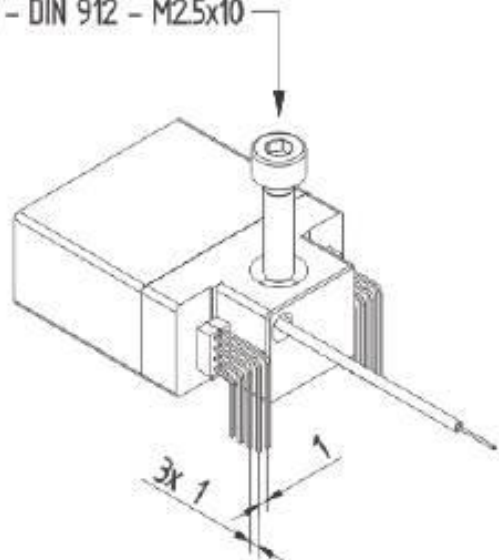
Detector Cube



Preliminary Mechanical Dimensions **

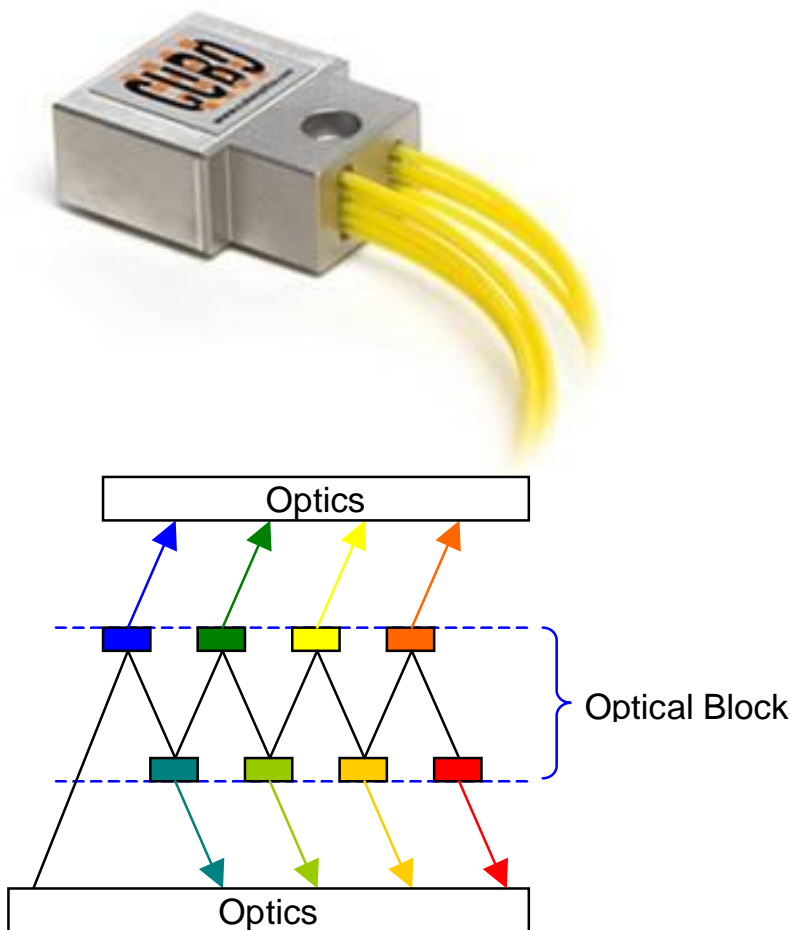
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Screw - DIN 912 - M2.5x10



units [mm]

Color Cubes – all fiber devices



Features

- SFM-28, GI-50 and GI-62.5 in production
- up to 10 pigtailed in a single device
- 1260 – 1620 nm
- small size 10.5 x 22 x 24.5 mm³
- rugged design, outside plant qual'd
- operation from –40°C to +85°C
- epoxy free optical path
- RoHS compliant per EU Directive
- UL 94 V0 flammability rating

- Isolation > 90dB (O.D. 9)

Other Wavelength Options

- 600 – 1600 nm
- 400 – 1800 nm optional

Thank you!



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