

# Fiber-coupled diode laser stacks: cw, actively cooled with deionized water

## JOLD-210-CAXF-6A

#### Design 211616226

#### Features

- High optical output power of 210 W cw
- Wavelengths: 807, 915, 938 and 976 nm
- Fiber core diameter: 600 μm (NA 0.22)
- Integrated pilot laser and power monitor
- Lifetime > 10,000 h, high reliability

#### **Applications**

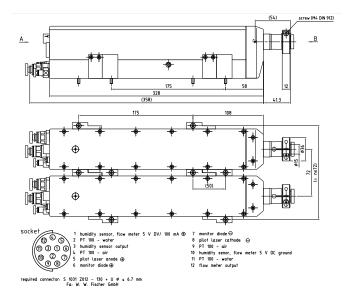
- Pumping of solid-state lasers and fiber lasers
- Material processing

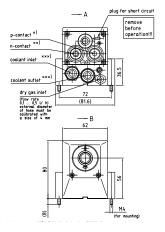
### Fiber-coupled diode laser stacks | cw, actively cooled with deionized water JOLD-210-CAXF-6A

JOLD-210-CAXF-6A Design 211616226  cw, power modulation only between threshold and maximum current				
210	210	210	210	W
807	915	938	976	nm
3	5	5	3	nm
4	4	4	4	nm
5	5	5	5	nm
59	60	60	64	A
65	66	66	70	A
10	6	6	6	A
13	9	9	9	A
4.3	3.9	3.9	3.7	W/A
3.8	3.5	3.5	3.2	W/A
13	13	13	13	
600 μm, NA 0.2	2			
High-power plug with 15 mm ferrule diameter				
Infineon, SFH 229				
0.5 3 mW, 650 nm $\pm$ 15 nm, 3 5 V, 40 $\pm$ 15 mA, power not adjustable (only for teaching and targeting purposes before laser operation)				
Plug KST6AR-N/10 (Part No.15.0001-22), Socket KBT6AR-N/10-S (Part No. 15.0017-21); Ref.: www.multi-contact-usa.com				
Purge gas, water vapor outlet closed with membrane				
Synthetic air, purity > 99.9997 %, flow rate 0.1 0.5 l/h (10 20 mbar pressure), Ref.: www.airliquide.com				
Ø 4 mm push-in fitting				
> 10,000 h (constant current)				
2.3 l/min ± 0.2 l/	min	'		
15 35 °C				
400 kPa maximum inlet and outlet pressure, 150 250 kPa pressure drop				
Ø 8 mm push-in fittings				
Deionized 2 6 μS/cm, mixed bed ion exchanger, particle filter < 25 μm (not included)				
	cw, power module 210 807 3 4 5 59 65 10 13 4.3 3.8 13 600 μm, NA 0.2 High-power plug Infineon, SFH 22 0.5 3 mW, 65 (only for teachin Plug KST6AR-N/Ref.: www.multi Purge gas, wate Synthetic air, purge gas, wate Sy	cw, power modulation only between threshold 210 210 807 915 3 5 4 4 4 5 5 5 5 5 9 60 60 65 66 10 6 6 10 6 13 9 4.3 3.9 3.8 3.5 13 13 600 µm, NA 0.22 High-power plug with 15 mm ferrule diamete Infineon, SFH 229 0.5 3 mW, 650 nm ± 15 nm, 3 5 V, 40 ± (only for teaching and targeting purposes before Plug KST6AR-N/10 (Part No.15.0001-22), Sock Ref.: www.multi-contact-usa.com Purge gas, water vapor outlet closed with mer Synthetic air, purity > 99.9997 %, flow rate 0. Ø 4 mm push-in fitting > 10,000 h (constant current)	cw, power modulation only between threshold and maximum current 210 210 210 807 915 938 3 5 5 5 4 4 4 4 5 5 5 5 59 60 60 60 65 66 66 66 10 6 6 66 110 6 6 6 13 9 9 9 4.3 3.9 3.9 3.9 3.8 3.5 3.5 3.5 13 13 13 13 13 600 μm, NA 0.22 High-power plug with 15 mm ferrule diameter Infineon, SFH 229 0.5 3 mW, 650 nm ± 15 nm, 3 5 V, 40 ± 15 mA, power not adjustable (only for teaching and targeting purposes before laser operation) Plug KST6AR-N/10 (Part No.15.0001-22), Socket KBT6AR-N/10-S (Part No. 1 Ref: www.multi-contact-usa.com Purge gas, water vapor outlet closed with membrane Synthetic air, purity > 99.9997 %, flow rate 0.1 0.5 l/h (10 20 mbar pro Ø 4 mm push-in fitting > 10,000 h (constant current)	cw. power modulation only between threshold and maximum current  210 210 210 210 210 210 210 807 915 938 976 3 5 5 5 3 4 4 4 4 4 4 4 5 5 5 5 5 5 5 5

#### See general user information!

Options on request: Including dry cartridge instead of water vapour outlet





- x) required connector: KST6AR-N/ 10; Order No. 15.0001-22
  (Fa: MULTI-CONTACT)
  required connector: KBT6AR-N/ 10-5; Order No. 15.0017-21
  (Fa: MULTI-CONTACT)
- external diameter of waterhose must be calibrated with a size of 8 mm ambient temperature < 40 °C

