



BrightLase® Fiber Coupled Module

Applications

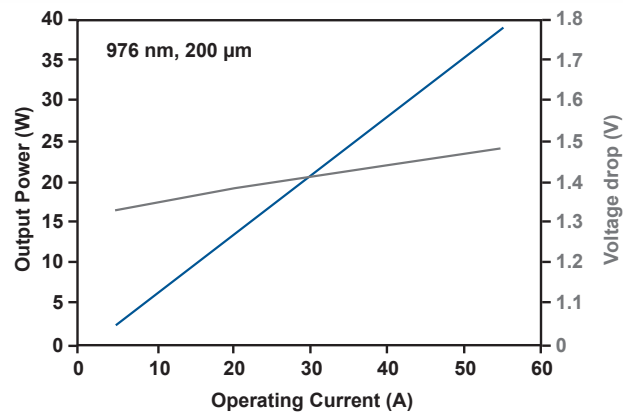
- Laser pumping: Fiber lasers, Solid state lasers
- Materials processing: Marking, Soldering, Plastics welding
- Medical: Dental, Ophthalmology, Therapeutic
- Defense: Target illumination

Features

- Aiming beam optional
- 795 nm, 808 nm, 976 nm, 1064 nm, 1380 nm, 1470 nm, 1532 nm
- Conduction cooled package
- Detachable Fiber
- Fiber delivery with or without armor

Benefits

- High performance from solid state lasers and fiber lasers
- Long working distance and sharper features for materials processing applications



	ES-160	ES-143	ES-135	ES-178	ES-150	ES-176	6401-A
Output power	≥35 W	≥30 W	≥35 W	≥30 W	≥10 W	≥12 W	≥15 W
Operating current	<68 A	<55 A	<68 A	<68 A	< 55A	< 55A	< 60A
Operating voltage	<1.9 V	<1.8 V	<1.8 V	<1.8 V	< 1.4 V	< 1.5 V	< 1.5 V
Center wavelength	795 nm	808 nm	976 nm	1064 nm	1380 nm	1470 nm	1532 nm
Wavelength tolerance	± 3 nm	± 3 nm	± 3 nm	± 10 nm	± 10 nm	± 5 nm	± 10 nm
Spectral width (FWHM)	<3 nm	<3 nm	<5 nm	<8 nm	< 12 nm	< 12 nm	< 12 nm
Wavelength temperature coefficient	<0.3 nm/°C	<0.3 nm/°C	<0.3 nm/°C	<0.3 nm/°C	0.3 nm/°C	0.35 nm/°C	0.35 nm/°C
Fiber core diameter (nominal)	200 μm	400 μm	200 μm	200 μm	400 μm	400 μm	400 μm
Fiber NA (nominal)	0.22	0.15	0.22	0.22	0.22	0.22	0.22
Fiber length	1 m	1 m	1 m	1 m	1 m	1 m	1 m
Fiber output connector	SMA	SMA	SMA	SMA	SMA	SMA	SMA
Operating/Test temperature	20° C	20° C	20° C	20° C	20° C	20° C	20° C
Internal thermister	NTC 10K Ω	NTC 10K Ω	NTC 10K Ω	NTC 10K Ω	NTC 10K Ω	NTC 10K Ω	NTC 10K Ω
Module size (L x W x H)	100mm x 41.5mm x 31.5mm						
OPTIONAL AIMING BEAM PARAMETERS							
Wavelength	635 ± 5 nm						
Output Power	> 1 mW						
Input Current	DC 35 mA						
Power Consumption	<175 mw						

BRIGHTNESS and POWER
Breaking Performance Barriers through Semiconductor Laser Innovation

QPC Lasers, Inc.

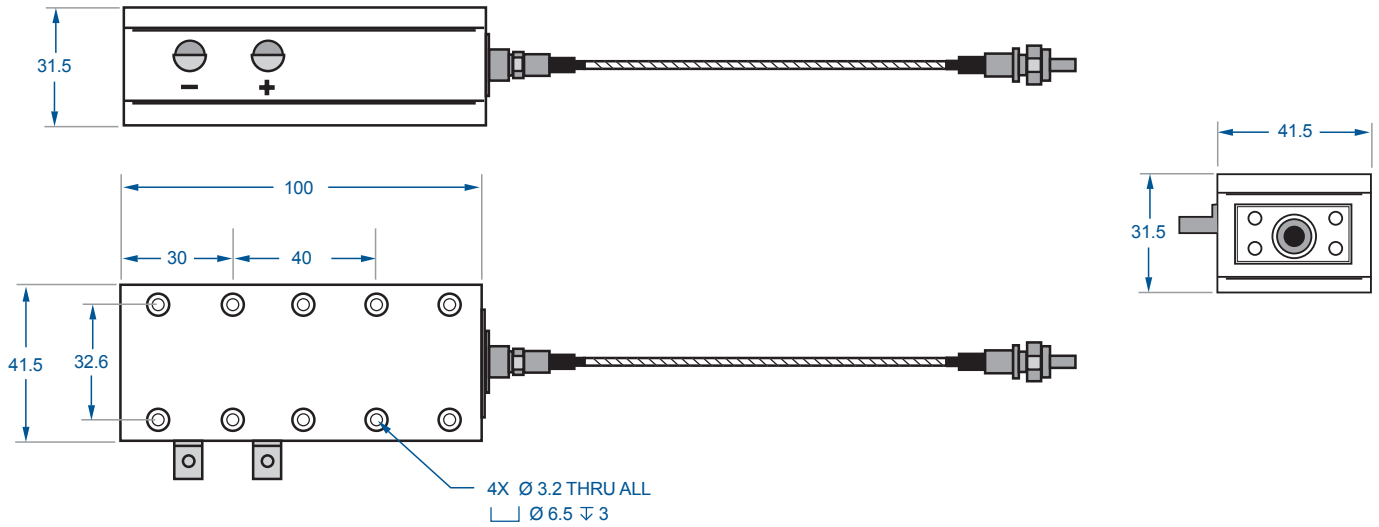
15632 Roxford Street • Sylmar, CA 91342 • Phone: +1 (818) 986-0000 • Fax: +1 (818) 698-0428
 www.QPCLasers.com • email: info@QPCLasers.com



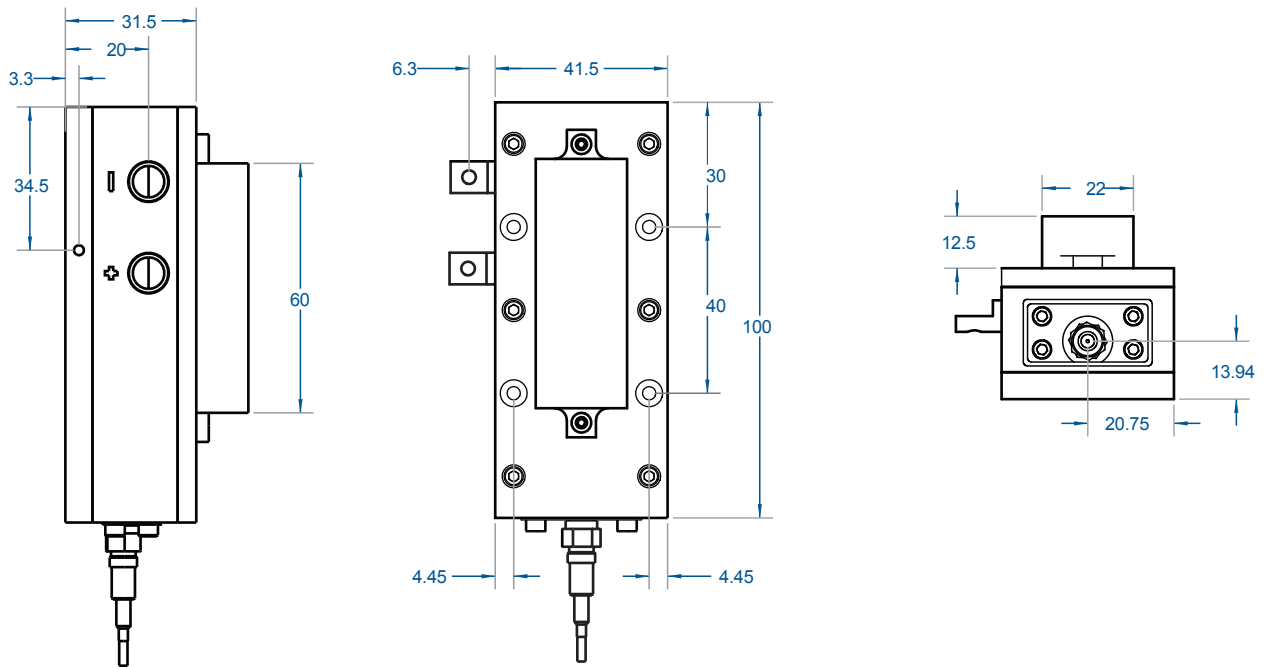


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Module Size



Module Size with Aiming Beam



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光技術をサポートする
株式会社オプトサイエンス
<http://www.optoscience.com>

東京本社 〒160-0014 東京都新宿区内藤町1番地 内藤町ビルディング
 TEL:03(3356)1064 FAX:03(3356)3466 E-mail:info@optoscience.com
 大阪支店 〒532-0011 大阪市淀川区西中島7-7-2 新大阪ビル西館
 TEL:06(6305)2064 FAX:06(6305)1030 E-mail:osk@optoscience.com
 名古屋営業所 〒450-0002 名古屋市中村区名駅2-37-21 東海ソフトビル
 TEL:052(569)6064 FAX:052(569)8064 E-mail:ngo@optoscience.com