

QYL 1500W~3000W Single-mode QCW Fiber Laser

PRODUCT DESCRIPTION

GT Lasers QYL series single-mode quasi continuous wave fiber lasers are ideal for applications requiring high peak power and small focal spot in pulsed operation mode, and a variety of microwelding and microdrilling applications.

The single-mode QCW Series fiber lasers are offered as both end user friendly rack units and OEM modules for system integrators. Water-cooling lasers are substantially more cost-effective than lamp-pumped YAG lasers due to wall-plug efficiencies >30% and maintenance-free operation.

GT Lasers, which is based on Internet technology, established a scientific after-sales service system. Each device has a unique identity code (the internal storage of original technology and material information). Can achieve remote online real-time monitoring; can provide users with equipment fault early warning and efficient technical support and good after-sales service.

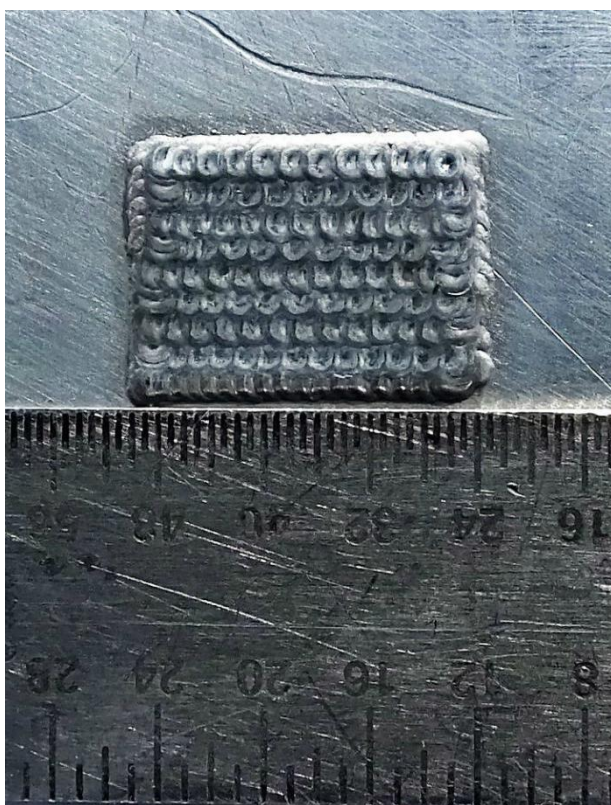
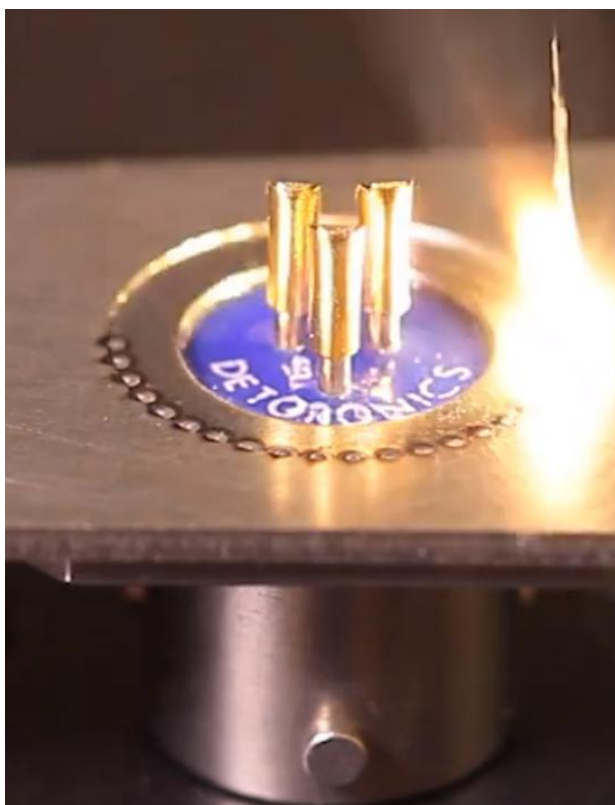


PRODUCT FEATURE

- ▶ Ideal Replacement for Lamp Pumped YAG Lasers
- ▶ Perfect Beam Quality
- ▶ Outstanding Pulse Power/Energy Stability
- ▶ Water-cooling Rack Units or OEM Modules
- ▶ Highly Efficient >30% Wall-plug Efficiency

MAIN APPLICATION

- ▶ Spot & Seam Welding of Various Precision Welds
- ▶ Microkeyhole and Conduction
- ▶ Cutting of Sapphire, Ceramics and Silicon
- ▶ Microdrilling of Metals and Non-metals
- ▶ Batteries, Medical Devices, Electronic Components



TECHNIQUE INDEX

Parameter			Index			Supplement
			Min.	Typ.	Max.	
Optic Feature	Max. Power QCW mode	W		1500		150/1500
				2000		200/2000
				3000		300/3000
	Max. Power CW mode	W		150		150/1500
				200		200/2000
				300		300/3000
	Maximum Pulse Energy	J		15		150/1500
				20		200/2000
				30		300/3000
	Power Tunability	%	10		100	
	Modulation frequency.	Hz	1		5000	
	Pulse Duration	Ms	0.1		50	
	Duty Cycle Range	%	0		50	
	Central wavelength	nm	1070	1080	1090	100% continuous
	Optical Efficiency	%		80		10~100% Linear Fit
Electrical cooling Feature	Wall-plug Efficiency	%		35		10~100% Linear Fit
	Spectral bandwidth (3dB)	nm		3		100% continuous
	Short-Term Stability	%		3		100% continuous >1h
	Beam Quality M2			25/400μm=1.3		100% continuous
				50/400μm=2.8		
	Laser on time	μs		50	100	10% → 90% output
	Laser off time	μs		50	100	90% → 10% output
	Power of Red Indicator Light	μW	100			100% output
	Output fiber length	m		10		
	Output fiber bending radius	mm	200			
	Output fiber core diameter	μm	50(25,100 Customizable)			
	Output connector		Standard QCS/QBH (LOC)			
	Size (L)×(W)×(H)	(mm)	451×483×104			150/1500
			596×483×111			200/2000
			666×483×111			300/3000
	Weight	(kg)	38			150/1500
			43.4			200/2000
			63			300/3000

DIMENSIONS

