

HF series

Fiber coupled QCW single diode bar module



MAIN FEATURES

- Compact
- High peak power
- High coupling efficiency
- Field replaceable fiber
- Conductive cooling
- Shock and vibration resistant

MAIN APPLICATIONS

- MEDICAL
- OPTICAL PUMPING
- INDUSTRIAL

SPECIFICATIONS

	HF06
Wavelength at 25°C (nm) ⁽¹⁾	808 +/-10 ⁽²⁾
Spectral width (nm)	< 5
Output optical power (W)	150
Pulse width (µsec)	200
Pulse repetition rate (Hz)	see fig.1
Duty cycle (%)	2
Operating current (A) ⁽³⁾	175
Operating voltage (V)	< 2.5
Efficiency (%)	> 40
Output optical fiber core (mm)	0.6
Output fiber numerical aperture	0.22
Fiber length (m)	2
Connector	SMA 905
Dimensions (H x L x W) in mm	21 x 100 x 34
Operating temperature	20°C to 30°C, 25°C typical
Cooling	conduction

(1) Variation of wavelength with temperature is approximately 0.3 nm / °C

(2) Other wavelengths on request

(3) Final value is provided with test data

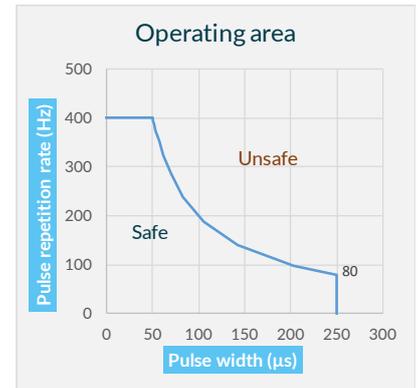


Figure 1



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Many options and configurations are available. Please contact Lumibird to find the best match for your needs and compatibility between options.



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APF series

Fiber coupled QCW diode stack



MAIN FEATURES

- Compact
- High peak power
- High coupling efficiency
- Field replaceable fiber
- Conductive cooling
- Qualified for defense and space applications
- Shock and vibration resistant

MAIN APPLICATIONS

OPTICAL PUMPING
MEDICAL
INDUSTRIAL

SPECIFICATIONS

	APF10	APF08	APF06
Pulse width (μs)	< 250		
Pulse repetition rate (Hz)	see fig.1		
Duty cycle (%)	< 2		
Output optical power (W)	up to 600	up to 500	up to 300
Operating current (A) ¹	< 100 typical		
Operating voltage (V)	< 12		< 10
Efficiency (%)	≥ 45	≥ 40	≥ 40
Wavelength at 25°C (nm) ²	808, 915, 940 or 980 (+/-10 nm)		
Spectral width (nm)	5		
Cooling	conduction		
Connector	SMA 905		
Output optical fiber core (mm)	1	0.8	0.6
Output fiber numerical aperture	0.22		
Dimensions (H x L x W) in mm [inches]	38.5 x 80 x 56 [1.5 x 3.15 x 2.2]		

¹ Final value is provided with test data

² Variation of wavelength with temperature is approximately 0.3 nm / °C



Figure 1

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