



SteadyBeam® 200 W 1064 nm Isolator

Rev 11

Description

AFR's SteadyBeam® is the best Isolator designed for high power pulsed fiber lasers. Two versions of design are compatible with lasers of 100 W and 200 W respectively. Under multiple patented technologies, the SteadyBeam® isolator delivers unparalleled performance of aberration-free and thermal lensing-free beam quality at any output power level. It also provides high isolation for reflection coming from all spatial angles.

Key Features

- High Power Handling
- Low Insertion Loss

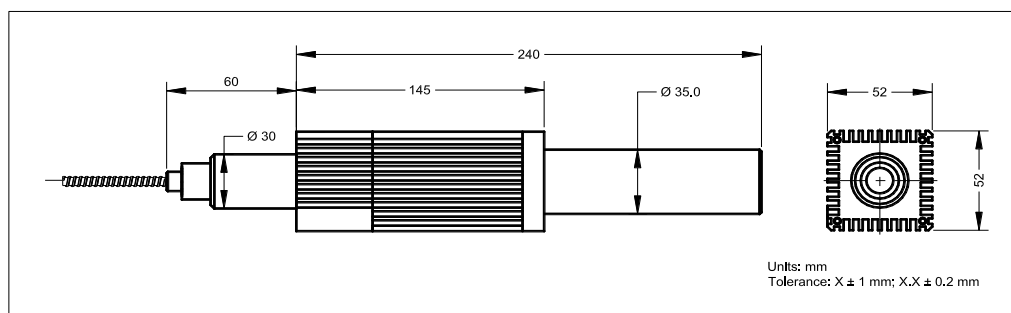
Applications

- Fiber Lasers
- Fiber Optic Instruments

Specifications

Parameter	Unit	Value
Center Wavelength (λ_c)	nm	1064 $\pm$ 15
Max. Insertion Loss @ 30 °C, λ_c	dB	0.4
Typ. Peak Isolation	dB	40
Min. Isolation @ 30 °C	dB	30
Min. Isolation @ Whole Operating Temperature Range	dB	20
Min. Return Loss	dB	50
Nominal Output Beam Diameter ($1/e^2$)	mm	6.5 $\pm$ 0.5
Beam Circularity	%	> 90
M ² Degradation	%	< 10
Focal Shift @ 200 W	Z _R	< 0.3
Max. Average Optical Power	W	200
Max. Average Optical Power from Cladding	W	5
Max. Peak Power (Pulse Width, 10 ns)	kW	30
Reverse Power Handling	W	10 W Continuous 50 W (3 min max.)
Fiber Types	-	Specified by Ordering Info
Operating Temperature	°C	+ 10 to + 50
Storage Temperature (Non-Condensing Condition)	°C	- 10 to + 60

Package Dimensions



Ordering Information

SteadyBeam®-200-①①-②②-③-④

①①: Wavelength

06 - 1064 nm

SS - Specify

②②: Jacket Type

10 - 10 mm Armoured Cable

SS - Specify

③: Fiber Length

3 - 3.0 m

S - Specify

④: Fiber Type

NA)

S - Specify