

# QBH (Quartz Block Head)



## 1.0 Description

High Handling Power  
 Water Cooling System & Compatible Design  
 Cladding Mode Stripper Integrated  
 Interlock System Integrated  
 Excellent Environmental Stability and Reliability

## Applications

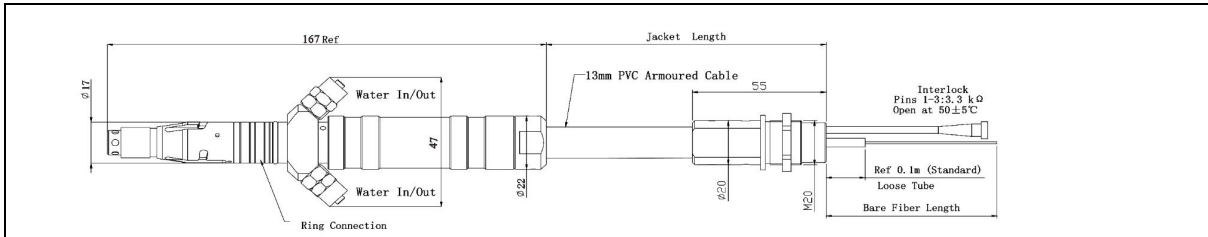
Fiber Lasers  
 Research & Design  
 Laser Cutting  
 Laser Cleaning  
 Laser Welding

## 2.0 Specifications

| Parameters                     | Unit  | Values  |
|--------------------------------|-------|---|
| Operating Wavelength           | nm    | 900 ~ 1000 (Nominal Center Wavelength 950nm)<br>1050 ~ 1110 (Nominal Center Wavelength 1080 nm) |
| Typ. Transmission Ratio        | -     | 99%   |
| Min. Transmission Ratio        | -     | 98%   |
| Max. Handling Power (CW)       | W     | 1000, 2000, 4000 ,6000,8000,12000 or Specify  |
| Pulse Power                    | -     | Max. 10KW @10ms<br>Max. 50KW @1ms<br>Max. 1MW @50ns   |
| Loss Power Handling Capability | -     | 1KW for 10 min<br>500W Continuously   |
| Nominal Beam Pointing Accuracy | deg   | 1   |
| Min. Beam Ellipticity          | -     | 0.92  |
| Max. Fiber Tensile Load        | N     | 5   |
| Package Material               | -     | Stainless Steel / Aluminum / Copper   |
| Operating Temperature          | °C    | +10 to +50  |
| Storage Temperature            | °C    | -10 to +75  |
| Max. Water Pressure            | Bar   | 8   |
| Flow of Water                  | L/min | 1.5-3   |
| Fiber Length ≤ 15 m            | -     | The Fiber Length Tolerance is -10cm   |
| 15m < Fiber Length ≤ 30m       | -     | The Fiber Length Tolerance is -20cm   |
| Jacket Length ≤ 15m            | -     | The Jacket Length Tolerance is +0.2/-0.1m   |
| 15m < Jacket Length ≤ 30m      | -     | The Jacket Length Tolerance is +0.4/-0.2m   |

\*The actual dimensions may be different from above drawing due to different requirements, please see shipment data sheet.  
 \*If the power is up to or more than 2KW, we suggest using some protective hat without window.  
 \*The material must be RoHS compliant.

## 3.0 Mechanical specifications and drawings: (Type P01)



## 4.0 Ordering information

| CNQBH-①-②-③-④-⑤-⑥-⑦-⑧-⑨   |   |   |   |  |
|---|---|---|---|--|
| ①: Wavelength   | ②: Connector Type                                   | ③: Handling Power   |   |  |
| 915 - 915nm<br>950 - 950nm<br>1064 - 1064nm<br>1080 - 1080nm<br>ect.  | QB - QBH Compatible<br><br><br><br>ect.             | 1KW - 1000W<br>2KW - 2000W<br>4KW - 4000W<br>6KW - 6000W<br>ect.  |   |  |
| ④: Fiber Type   | ⑤: Jacket Length                                    | ⑥: Bare Fiber Length  | ⑦: Package Type   |  |
| 01 - BrightCore YZ037 20/250, 0.075NA<br>02 - BrightCore YZ041 25/250, 0.11NA<br>03 - BrightCore DZ027 20/400, 0.065NA<br>04 - BrightCore YZ035 50/400, 0.12NA<br>05 - BrightCore YZ049 50/70/125, 0.12NA<br>06 - BrightCore DZ066 50/70/250, 0.12NA<br>07 - BrightCore YZ042 50/70/360, 0.22NA<br>08 - BrightCore YZ050 100/140/250, 0.12NA<br>09 - BrightCore 100/120/200, 0.15NA<br>ect. | 08 - 8m<br>10 - 10m<br>15 - 15m<br>20 - 20m<br>ect. | 1.0- 1m<br>1.5 - 1.5m<br>2.0 - 2m<br>ect.   | P01 - Type P01<br>P02 - Type P02<br>P03 - Type P03<br>ect.  |  |
|   |   | ⑧: Protection Cap Type  | ⑨: Cable End Package  |  |
|   |   | N - Aluminum Without Window<br>W1 - Aluminum With Window For SM Fiber<br>W2 - Aluminum With Window For MM Fiber<br>ect. | B - Binder Connector Type<br>P - 2-Pin Leadwire<br>N - None |  |
| For example: <b>CNQBH-1080-QB-2KW-03-15-2.0-P01-W1-P</b>  |   |   |   |  |