

## High Power Expanded Beam Isolator

### Features

Low insertion loss  
High extinction ratio  
High stability & Reliability

### Applications

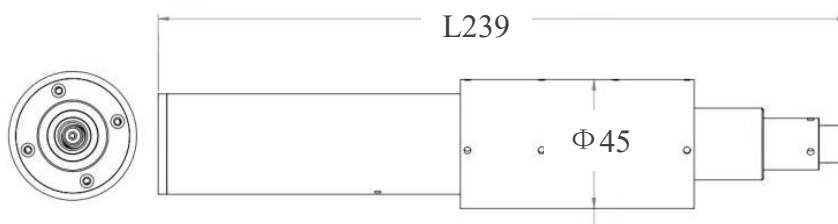
Fiber Amplifier  
Fiber sensor  
Fiber Laser Marking  
Laboratory R&D

| Parameter                         |            | High power expanded beam isolator, HPEI              | Unit |
|-----------------------------------|------------|------------------------------------------------------|------|
|                                   |            | Non-PM isolato                                       |      |
| Operating wavelength              |            | 1064±5                                               | nm   |
| Peak isolation                    |            | ≥35                                                  | dB   |
| Isolation in band at 23℃          |            | ≥28                                                  | dB   |
| Insertion loss at 23℃             |            | ≤0.50                                                | dB   |
| Polarization dependent loss       |            | ≤0.15                                                | dB   |
| Extinction ratio                  |            | /                                                    | dB   |
| Return loss (Input)               |            | ≥50                                                  | dB   |
| Beam Divergence @Fundamental mode |            | ≤0.50 (Full Angle)                                   | mrad |
| Output Beam Ellipticity           |            | ≥90                                                  | %    |
| Fiber type (can be customized)    |            | x/125, x/250, etc.<br>(x=10um, 15um, 20um,30um,etc.) | -    |
| Armored cable diameter            |            | Φ10.5mm, cable can be customized.                    | -    |
| Output beam diameter@1/e2         |            | 6-8; Others on demand                                | mm   |
| Input max. power<br>handling      | Average    | 120                                                  | W    |
|                                   | Pulse peak | 50                                                   | kW   |
| Reverse Power Handling            |            | ≤20W for 1 hour. Max                                 | W    |
| Operating Temperature             |            | -5 ~ +50                                             | ℃    |
| Storage Temperature               |            | -20 ~ +70                                            | ℃    |
| Dimensions ( Φ ×L )               |            | Φ 45×L239                                            | mm   |

\* Both Single cladding fiber (SCF) and double cladding fiber (DCF) are available.

\* Type B: Both axis working, Type F: Fast axis blocked.

### Mechanical Dimension



HPEI

### Ordering Information

| specification          | GCHPEI                                            |
|------------------------|---------------------------------------------------|
| Fiber length           | Specify                                           |
| Armored cable length   | Specify                                           |
| Package size           | Φ45×L239mm                                        |
| Average power handling | 10=10W, 20=20W etc                                |
| Power condition        | C=Continue Wave, P(10)=Pulse Peak Power(10KW),etc |
| Fiber type             | Specify                                           |
| Armored cable diameter | 10.5mm, etc                                       |
| Operating wavelength   | 1064nm etc                                        |