

# High Power Expanded Beam Collimator, HP(M)EC

## Description

The high power collimator is fiber in and free out with beam expanded, which are characterized with low insertion loss, high beam quality, high power handling, high return loss, excellent environmental stability and reliability. They are ideal products used for fiber laser and instruments applications.

## Features

- \* Low insertion loss
- \* PM and Non-PM types are available
- \* High beam quality
- \* Fiber can be customized

## Applications

- \* Fiber laser
- \* Fiber sensor



HP(M)EC

## Specifications

Parameter \ Type		High power expanded beam collimator, HP(M)EC	
		Non-PM	PM
Operating wavelength( nm)		1064±10	
Insertion loss at 23℃( dB)		≤0.50	
Output beam diameter (mm)		4±0.5; 7±0.5; 12±1, etc. others on demand	
Extinction ratio ( dB)		/	≥20
Return loss (Input) ( dB)		≥50	
Fiber type (can be customized)		HI1060, x/125, x/250, etc. (x=10um, 15um, 20um, 30um,etc.)	PM980, PM x/125, x/250, etc. (x=10um,15um,20um,30um,etc.)
Armored cable diameter		Φ3, Φ7 or Φ10.5mm	
Input max. power handling	Average (W)	200 (can be customized)	
	Pulse peak(KW)	50	
Operating temperature (℃)		-5 ~ +50	
Storage temperature (℃)		-20 ~ +70	
Dimensions (Φ×L mm)		Φ14×L110 (SUS303) Φ15×L110 or Φ15×L117 (aluminium alloy) Φ35×L160 or Φ35×L185 (aluminium alloy)	

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

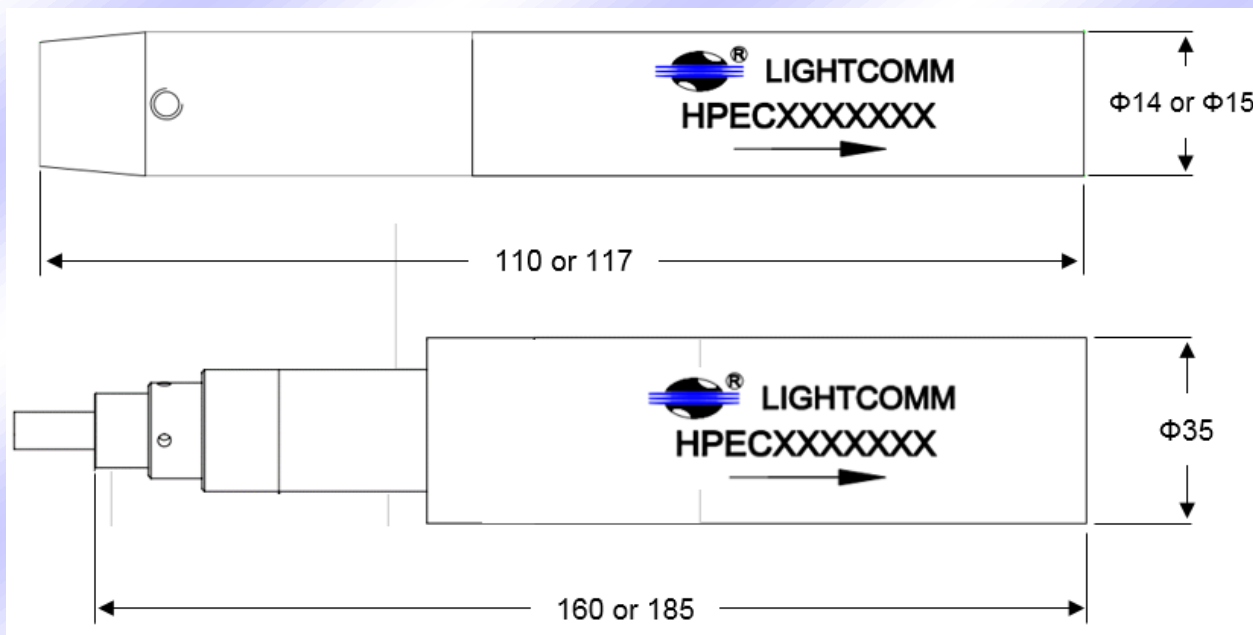
\*Extinction ratio: ≥20dB (PM980), ≥20dB (PM10/125SCF), ≥18dB (PM10/125DCF; PM20/125SCF),  
≥18dB (PM10/125DCF; PM20/125SCF); ≥16dB (PM20/125DCF);

\*NO backward power.

\*Dimension can be made on customer request.

\*Insertion loss of light through fiber cladding is not included in the Insertion loss specification.

## Mechanical Dimensions (Unit: mm)



## Ordering Information

HP(M)EC-XXXX-X-X-X-X-XX\*XX-XX-XX

