OPTICAL LENS

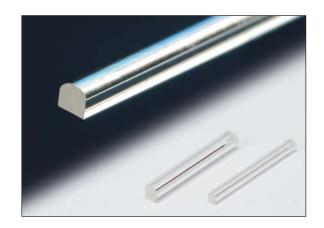
FAC LENS (Fast-Axis Collimating Lens)

J10919 SERIES

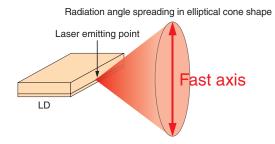
OVERVIEW

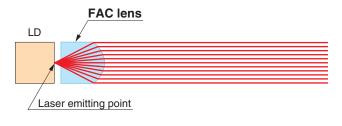
The J10919 series FAC lens is an optical lens that collimates light spreading from a semiconductor laser (LD) in the fast-axis direction. LD have a large divergence angle in the fast-axis direction, so the output light cannot be efficiently used unless collimated.

The FAC lens collimates light spreading from a LD into a narrow beam with a radiation angle of several milliradians (mrad) or less so that the diverging light can be efficiently utilized.



COLLIMATING LIGHT

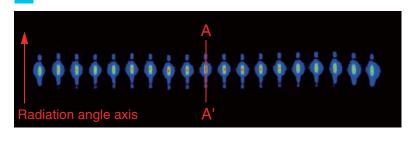


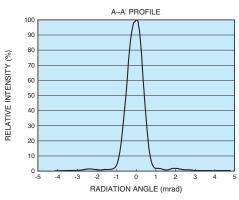


FEATURES

- Aspheric micro-cylindrical lens
- Highly efficient utilization of light from LD
- Small variations in characteristics allow mass production
- Minimized smile and side lobes due to high-precision fabricating technology

OUTPUT DISTRIBUTION IMAGE WHEN INSTALLED



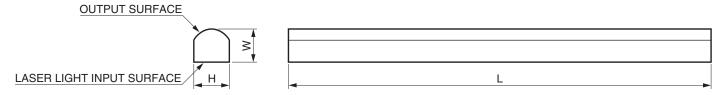






Parameter		FAC300	FAC610	FAC920	Unit
Type No.		J10919-03	J10919-01	J10919-02	_
Wavelength area		790 to 990			nm
Numeric aperture (NA)	Min.	0.8			_
Material		High refractive index glass			_
Refractive Index at 915 nm		1.809			_
Effective focal length (EFL)		300	610	920	μm
Back focal length (BFL)		80	100	150	μm
Height (H)		0.50	1.00	1.50	mm
Width (W)		0.40	094	1.41	mm
Length (L)		4.0 12.0		mm	
Efficiency	Min.	85 (±2.5 mrad)	85 (±1.5 mrad)	85 (±1.0 mrad)	%
Transmittance	Min.	98			%

DIMENSIONAL OUTLINES (Unit: mm)



^{*} See the above specification table for L, H and W.

CUSTOMIZATION

- Changing wavelength area
- Changing focal length
- Changing length

Please feel free to contact us for modification.

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