OPTICAL
ENS FOR
X-RAYFOCUSING
CAPILLARY LENSJ12818-01

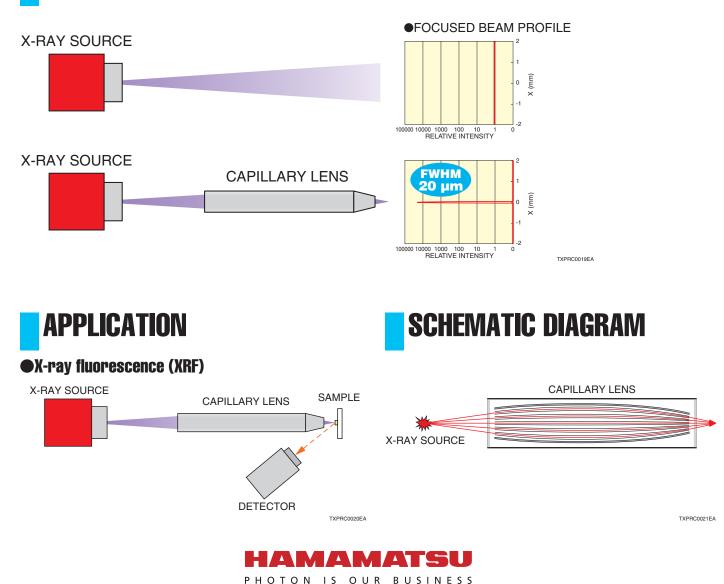
OVERVIEW

The J12818-01 focusing capillary lens is a focusing optics for X-rays, consisting of a bundle of numerous hollow glass capillaries formed into a cylindrical shape with its ends gently tapered.

This product utilizes total reflection of X-rays on the inner wall of each capillary to focus X-rays emitted from an X-ray source to a small spot.



X-RAY FOCUSING USING A FOCUSING CAPILLARY LENS



SPECIFICATIONS

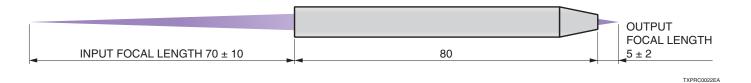
Parameter		Description / Value	Unit
Operating X-ray energy (recommended)		3 to 25 ^①	keV
Input focal length		70 ± 10	mm
Output focal length		5 ± 2	mm
Focusing size (FWHM)		20	μm
Gain (Min.) ^②	@Cu-Kα (8.0 keV)	10 000	—
Operating ambient temperature		0 to +50	°C
Input / output window material		Polyimide film	_
Housing case material		Stainless steel	—

NOTE: ①Compatible with less than 3 keV when input/output windows are removed.

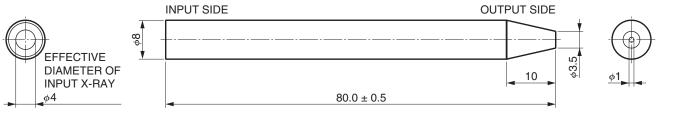
②Compared with a pinhole of the same size as the focusing size, placed at the focus position.

An X-ray source with a focal spot size of 20 µm is used.

OPTICAL DIMENSIONS (Unit: mm)



DIMENSIONAL OUTLINES (Unit: mm)



TXPBA0031EB

* For information on custom products, please contact us.

Subject to local technical requirements and regulations, availability of products included in this promotional material may vary. Please consult with our sales office. Information furnished by HAMAMATSU is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omissions. Specifications are subject to change without notice. No patent rights are granted to any of the circuits described herein. ©2020 Hamamatsu Photonics K.K.

HAMAMATSU PHOTONICS K.K. www.hamamatsu.com

Electron Tube Division

314-5, Shimokanzo, Iwata City, Shizuoka Pref., 438-0193, Japan, Telephone: (81)539/62-5248, Fax: (81)539/62-2205

 S14-5, ShimoKanzo, Iwata City, Shizuoka Prer., 438-0193, Japan, Telephone: (61)5039/02-2248, Pax: (61)539/02-22405
U.S.A.: Hamamatsu Corporation: 360 Foothill Road, Bridgewater, NJ 08807, U.S.A., Telephone: (19)908-231-0960, Fax: (19)808-231-1218 E-mail: usa@hamamatsu.com
Germany: Hamamatsu Photonics Deutschland GmbH.: Arzbergerstr. 10, D-82211 Herrsching am Anmersee, Germany, Telephone: (49)8152-375-0, Fax: (49)8152-255-8 E-mail: info@hamamatsu.de
France: Hamamatsu Photonics France S.A.R.L.: 19, Rue du Saule Trapu, Parc du Moulin de Massy, 91882 Massy Cedex, France, Telephone: (33)1 69 53 71 100, Fax: (33)1 69 53 71 100, Fax: (33)1 60 53 71 100, E-mail: info@hamamatsu.de
North Europe: Hamamatsu Photonics UK Limited: 2 Howard Court, 10 Tewin Road, Welwyn Garden City, Hertfordshire AL7 1BW, UK, Telephone: (44)1707-325777 E-mail: info@hamamatsu.co.uk
North Europe: Hamamatsu Photonics Italia S.r.L: Strada della Moia, 1 int. 6, 20020 Arese (Milano), Italy, Telephone: (49)8-509 031 00, Fax: (49)8-509 031 01 E-mail: info@hamamatsu.se
Italy: Hamamatsu Photonics Italia S.r.L: 201 Tower B, Jaiming Center, 27 Dongsanhuan Belu, Chaoyang District, 100020 Beijing, P.R. China, Telephone: (86)10-6586-6006, Fax: (86)10-6586-666 E-mail: info@hamamatsu.co.uk
TXPR102 SEPT. 20: TXPR1027E04 SEPT. 2020 IP