

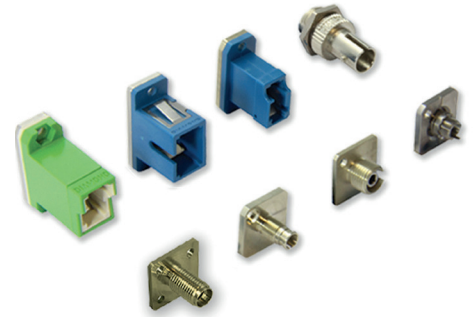
DIAMOND

Fiber Optic Components

IMOD

(Interface module)

0°/8°



NETWORK ACCESSORIES

The Interface Module (IMOD) has been developed as a half adapter for free space application of optical connector.

These modules are used more commonly for PC 0° connection, but version for using APC 8° ferrules can be offered as custom component.

The two major reasons for using a high quality IMOD are the need of repeatable positioning in both axial and radial direction between each connector and each IMOD.

To obtain such performance, each component must be built with a good design, adequate materials and high precision components where necessary. Diamond produces to this effect sleeves and ferrules in ZrO₂ with very tight tolerances and terminate connectors using the Diamond patented Active Fiber Core Alignment for very low concentricity.

IMOD are available in three different configurations:

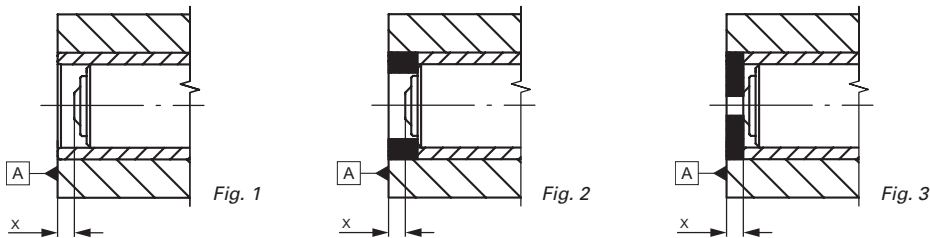


Fig. 1 Free space (without any stopper) for applications which doesn't require specific tolerances or exact ferrule axial positioning.

Fig. 2 With ferrule ZrO₂ cylinder stopper, for a good axial repeatability.

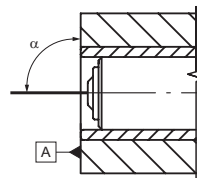
Fig. 3 With ferrule front face stopper, for superior axial repeatability.

	CHANGING ONLY THE CONNECTOR	CHANGING BOTH IMOD AND CONNECTOR
Fig. 1	Depends on connector type (mechanical interface defined from the international standards) Typ. 0.3 mm	
Fig. 2	0.05 mm	0.15 mm
Fig. 3	0.01 mm	0.02 mm

Tighter tolerances available on custom design.

OPTICAL AXIS

The optical offset (α) is 90° \pm 1,2° for all types (more accuracy upon request).



FEATURES

- ▶ High precise and repeatable ferrule positioning
- ▶ Custom materials and geometries upon request

AVAILABLE TYPES

- ▶ E-2000™, F-3000™, SC, LSA (DIN), FC, ST™, Mini-AVIM, F-SMA (other types upon request)



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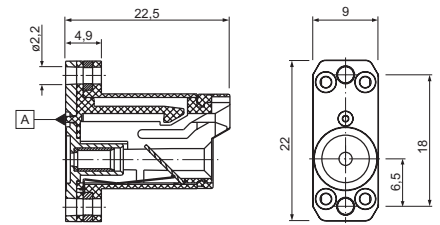
Specifications subject to change without notice

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TYPES AND DIMENSIONS

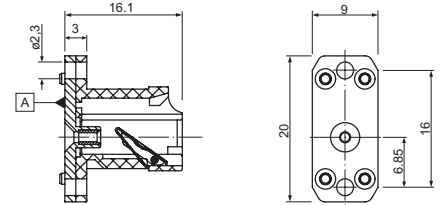
IMOD E-2000™

Available types: **IMOD E-2000™ 0°**



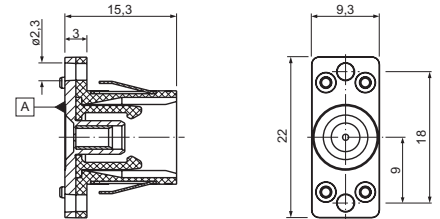
IMOD F-3000™

Available types: **IMOD F-3000™ 0°**



IMOD SC

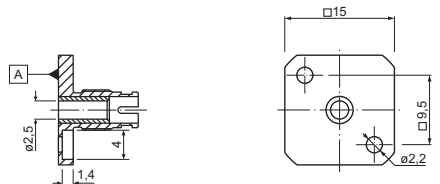
Available types: **IMOD SC 0°**



IMOD LSA (DIN)

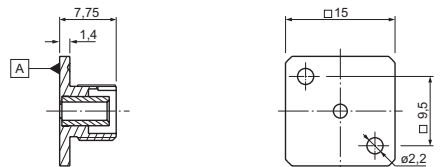
Available types: **IMOD LSA (DIN) 0°**

Note: three types available. Dimensions to be defined with the customer.



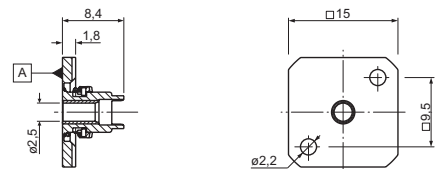
IMOD FC

Available types: **IMOD FC 0°, key 2 or 2.2mm**
IMOD FC 8°, key 2mm



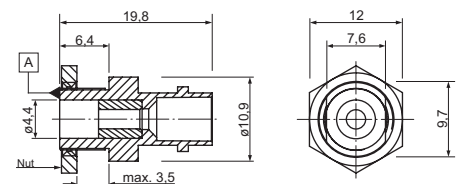
IMOD Mini-AVIM

Available types: **IMOD Mini-AVIM 0°**
IMOD Mini-AVIM 8°



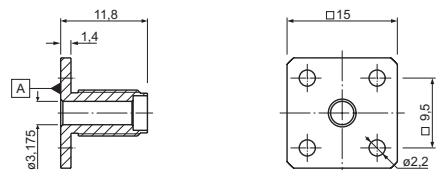
IMOD ST™

Available types: **IMOD ST™ 0°**



IMOD F-SMA

Available types: **IMOD F-SMA 0°**



NOTE Diamond's standard body and frame colors are as follows: Blue for SM PC, green for SM APC, beige for MM and red for PS.

ORDER INFORMATION

Please refer to the part numbers provided in the separate P/N list.
For other configurations, please contact your nearest local Diamond representative or fill in the contact form available on the www.diamond-fo.com website.