

Data sheet

FM-1.3 - Fiber Mount for SAM chips 1.3 mm x 1.3 mm

Application of FM-1.3

The fiber mount FM-1.3 is developed for fiber coupling experiments using SAM chips with a size of 1.3 mm x 1.3 mm. With the FM-1.3 a simple and removable fiber butt coupling can be realized. Therefore besides the FM-1.3 accessory only a SAM chip with a 1.3 mm x 1.3 mm chip area and a fiber with a FC/PC connector are needed.

Pros and Cons

The fiber mount FM-1.3 has the following advantages:

- The connection between the fiber end of the FC/PC connector and the SAM chip can be easily removed. So the FM-1.3 is ideal for testing SAMs with different parameters in one laser setup.
- After an unwanted local damage of the SAM surface the chip position can be changed slightly, so that a next experiment is possible with the same SAM chip (after cleaning of the fiber end).



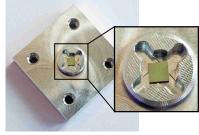
How to use the FM-1.3?

With the FM-1.3 a SAM chip with an area of 1.3mm x 1.3mm can be butt coupled to a fiber with FC/PC connector. The SAM chip can be exchanged or shifted with respect to the fiber core after a local damage.

Important: Before assembling the FM-1.3 the fiber end must be clean. It is recommended to check the fiber surface using a fiber scope.



Step 1Disassemble the FM-1.3 so that the base plate is separated



Step 2
Put a 1.3mm x 1.3mm SAMchip with face up into the
center of the base plate, the
chip must be rotated by ~ 45°
to be placed in the milled cross



Step 3Assemble the FM-1.3 using the top plate and the four M2 screws. The base plate should not be shaken. Otherwise the chip may slip out of place.



