
Subject: 5 micron (0.005mm) precision near Urbana-Champaign
Posted by [triumphant_potato](#) on Wed, 30 Jan 2013 01:17:01 GMT
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So I am working on a senior design project that is designing a holder for fiber-optic fibers at cryogenic temperatures. One approach we are considering for designing this is to use 3D printing. The key part is 8 X 6 X 3 mm. Along the 8 mm axis need to be 8 holes, arranged in two rows of 4. This design is attached. There are to be 4 parts. Each are identical except for the diameters of the holes.

These diameters are as follows:

1.000 mm

0.755 mm

0.497 mm

0.230 mm

These holes need to be circular and straight to a precision of 0.005 mm.

Strength is also a necessity. If you, or the company you are familiar with, are capable of making these products, please let me know.

NOTE: My team and I will provide the design. I am looking for nearby printing facilities in order to work back and forth, physically, with relative ease.