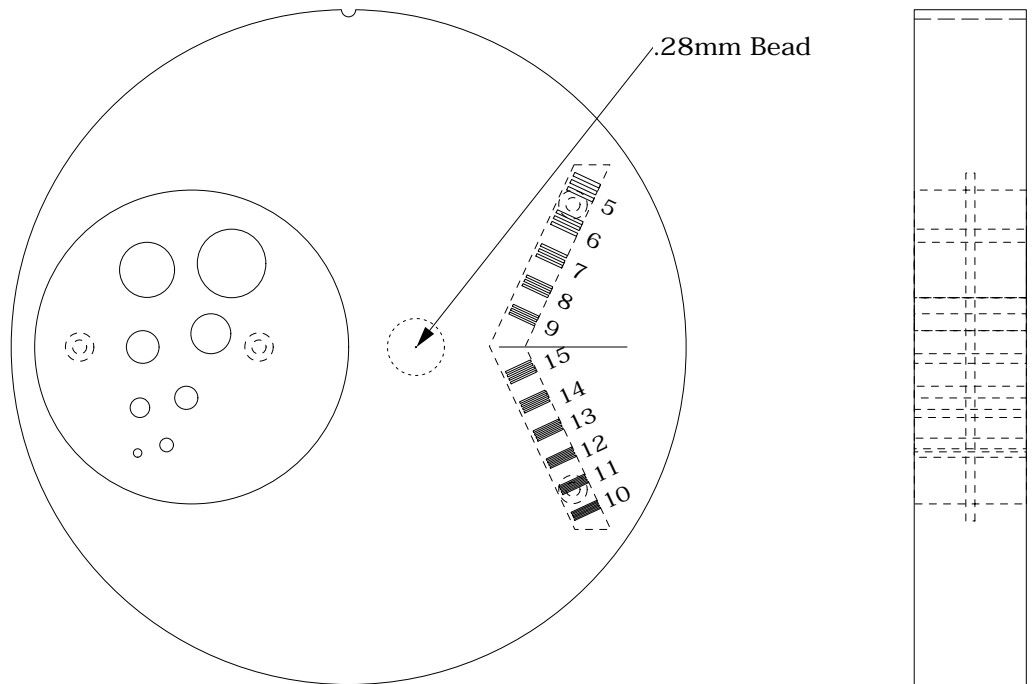


part number  
CTP592

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## Low and High Contrast Resolution Module

The CTP592 module has a diameter of 15cm, and is 2.5cm thick. This module is used for the following tests:

- low contrast sensitivity
- high-resolution (up to 15 line pairs per cm)
- point spread function
- modulation transfer function (MTF)

CTP592 low contrast test consists of a series of cylindrical rods of various diameters and contrast levels to measure low contrast performance. The 25mm long rods provide consistent contrast values throughout their length. All the rods are cast from the same mix with a nominal contrast of 0.5%. The 8 contrast rod diameters are 2, 3, 4, 5, 7, 9, 12 and 15mm. The rods and background material have equivalent effective atomic numbers. Only the density is varied to produce changes in the effective attenuation coefficients.

A precisely manufactured, high-resolution gauge is cast into CTP592. The gauge has been carefully designed to ensure that its imaging artifacts do not cause streaks in the resolution tests. The gauge is 2mm thick and has 11 resolution sections in single line pair increments over the range of 5 to 15 line pairs per cm (LPC).

The modulation transfer function (MTF) and slice sensitivity profile can be calculated from the impulse created by the .028mm diameter tungsten carbide bead.



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