



2D MEMS Micromirror Chip mounted on TO39 Header

The 2D MEMS Header (PN 786051) features AGM's 2D MEMS Chip mounted on a TO39 header with a hermetic glass window cap. This product is being offered for the purpose of evaluating our 2D MEMS chip. The chip is die-attached to the header with bondpads wirebonded to the leads, so the micromirror can easily be actuated by applying voltages to the drive pins. The TO39 is an industry standard package that can be conveniently used for applications in Fiber-optics, LIDAR, Biomedical, and other Optical applications.

The AGM Two Axis MEMS chip has a 1 mm diameter mirror and rotates about +/- 3.2 deg (mechanical) in one axis and +/-2.5 deg (mechanical) in the other axis. The drive voltage ranges from 0 to 60V, and four drive voltages are required. The detailed specs of the chip are shown in the [spec sheet for 2D MEMS Chip](#) (PN 786041).

The Optical Field Of View (FOV) in quasi static mode is about 13 x 10 deg with a response time of a few milliseconds. Driving the MEMS chip at the resonant frequencies of the two axes produces a Lissajous scan pattern. In this case the FOV is increased to about 30 x 18 degrees.

AGM Part Number 786051

