

LOW COST HEAD GIMBAL ASSEMBLY

ABSTRACT OF THE DISCLOSURE

A low cost, flex head gimbal assembly has a substrate with an attachment region, a flexure region and an integrated gimbal. The flex head gimbal assembly is electrically and mechanically connected to an actuator arm via solder bumps in the attachment region. A stiff plate is attached to the substrate between the attachment region and the flexure region. A flex cable and electrical interconnections extend from the attachment region across the flexure region to the gimbal. Electrical leads extend from the solder bumps to the flex cable. The substrate is bent at the stiff plate to achieve the desired z-height and to impart the pre-load to the assembly.

Figure 3



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