LOW PROFILE THIN FILM WRITE HEAD

ABSTRACT

A thin film low profile write head (30) is provided which has first and second pole pieces (48, 52) which are magnetically connected in a pole tip region (54, 56) and at a back gap. The pole tip region (54, 56) is located between the head surface (66) and a zero throat height, and the head (30) has a body region which is located between the zero throat height and the back gap. A plurality of insulation layers (60, 62, 64) are located above the first pole piece (48) in the body region. Each of the insulation layers (60, 62, 64) has an apex where the insulation layer commences and each insulation layer (60, 62, 64) extends from its apex toward the back gap. The plurality of insulation layers (60, 62 64) typically includes first, second and third insulation layers (60, 62, 64). In the preferred embodiment the apex of the second insulation (62) layer is located at and defines the zero throat height of the head (30).

Figure 2.