

Side View Along the Sample Length

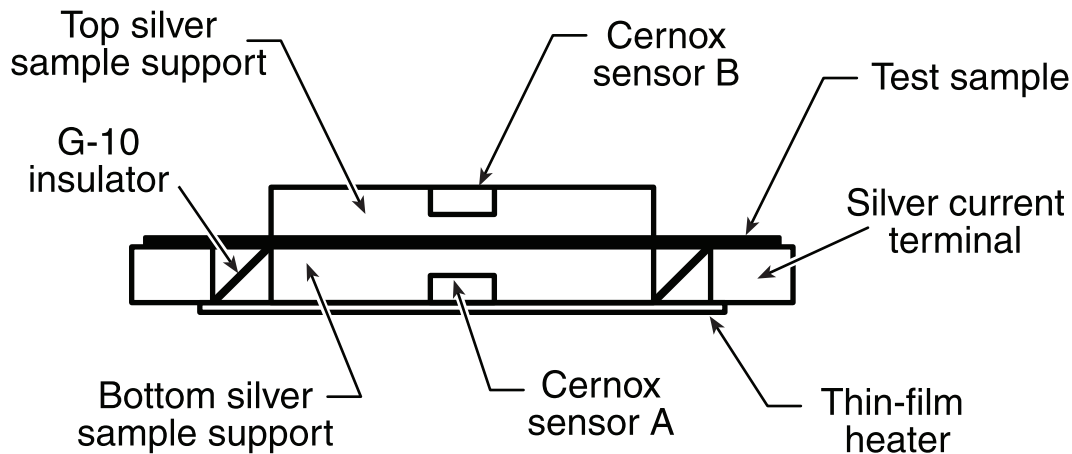


FIG. 7.4. Dual sample holder for variable-angle measurements, where the samples are sandwiched between two supports made of silver, to provide good thermal stability as well as to match the thermal expansion of the test samples (in this case, silver-sheathed bismuth-based HTS samples). A G-10 spacer is used to direct the flow of current through the two samples. The top support inserts into the bottom piece for alignment (not shown), and the entire “sandwich” is taped together with Teflon™ tape. The support pieces are equipped with a thin-film heater and two thermometers, one to control the heater and the other to monitor the sample temperature. (Adapted from Herzog et al. 1994.)