

Abstracts

High Power Microwave Window Design

H.L. Bassett, J.M. Schuchardt, G.T. Colwell and B.L. Smith. "High Power Microwave Window Design." 1974 S-MTT International Microwave Symposium Digest of Technical Papers 74.1 (1974 [MWSYM]): 145-148.

The design of a heat-pipe cooled microwave waveguide window will be presented in this paper. The window is capable of handling megawatts of RF power in S-band (2.6 - 4.0 GHz) waveguide. The thickness and spacing of the windows, the window material characteristics, the thermal analysis of the heat pipe and the power handling capability will be addressed. The use of this technique in cooling other microwave components is discussed

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