

Abstracts

The Design and Test of High-Power Waveguide Windows

D.B. Churchill. "The Design and Test of High-Power Waveguide Windows." 1961 PGMTT National Symposium Digest 61.1 (1961 [MWSYM]): 33-34.

The trend toward increased power has brought the waveguide window problem into sharp focus. Window failures have impeded the development of high-power microwave tubes. Punctures and fractures of the dielectric materials are frequently preceded by excessive heating which cannot be ascribed to dissipative losses within the body of the dielectric element. There is evidence that the temperature rise in part is due to electronic discharge on the low-pressure side of the window.

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