

Abstracts

High-power vacuum window in WR10

M.E. Hill, R.S. Callin and D.H. Whittum. "High-power vacuum window in WR10." 2001 Transactions on Microwave Theory and Techniques 49.5 (May 2001 [T-MTT]): 994-995.

Results are presented in this paper for fabrication and test of a WR10 waveguide window for use in ultrahigh vacuum at 91.4 GHz. Low-power bench measurements are compared with analytic and simulation results. Operation at $\sqrt{4\text{-Kw}}$ peak power, duty factor 10^{-6} , and 10^{-9} -scale vacuum is noted.

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