Abstracts

Layered Media as High Power Microwave Absorbers

S.R. Steele and R.J. Briggs. "Layered Media as High Power Microwave Absorbers." 1962 PGMTT National Symposium Program and Digest 62.1 (1962 [MWSYM]): 72-77.

Materials for high power attenuator or matched load applications should present a wave impedance of several hundred ohms for maximum absorption and at the same time should be capable of large heat dissipation. These requirements are generally mutually exclusive, since for conductors thermal conductivity is proportional to electrical conductivity. One way to circumvent this is to use an anisotropic material which can conduct heat easily in the direction perpendicular to the electric field orientation.

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