Abstracts

An RF-Primed All-Halogen Gas Plasma Microwave High-Power Receiver Protector

H. Goldie and S. Patel. "An RF-Primed All-Halogen Gas Plasma Microwave High-Power Receiver Protector." 1982 Transactions on Microwave Theory and Techniques 30.12 (Dec. 1982 [T-MTT] (1982 Symposium Issue)): 2177-2184.

A new type of keepalive for gaseous hybrid waveguide receiver protectors is shown to provide reliable and reproducible power limiting. The design allows halogen gases to be used in place of conventional gasfills, resulting in extremely fast recovery periods independent of duty cycle over a wide range. Recovery periods less than 100 ns were measured at incident power levels of 200-W peak at X-band frequencies using duty cycles up to 0.5.

❑ Return to main document.