Abstracts

A 2-Kilowatt Average Power X-Band Receiver Protector for the Lincoln Laboratory SOSI Radar

H. Goldie. "A 2-Kilowatt Average Power X-Band Receiver Protector for the Lincoln Laboratory SOSI Radar." 1976 MTT-S International Microwave Symposium Digest of Technical Papers 76.1 (1976 [MWSYM]): 148-150.

A 2-kilowatt average power receiver protector with a 5,000-hour operating life has been developed. The design is of the gas plasma diode hybrid type which heretofore could provide only one-tenth the power handling for equivalent operating life. Predicted life is based on experimentally obtained molecular sorption coefficients performed at 2-kW average power in X-band. The device has been developed for use as a receiver protector in the high-resolution SOSI Radar at Lincoln Laboratory. This Radar will transmit 200 kW average power at X-band and consequently requires a high average power receiver protector.

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