

Abstracts

X-Band High-Power Multipactor Receiver Protector

T.P. Carlisle. "X-Band High-Power Multipactor Receiver Protector." 1978 Transactions on Microwave Theory and Techniques 26.5 (May 1978 [T-MTT] (Special Issue on High-Power Microwaves)): 345-347.

High vacuum devices incorporating the secondary electron resonance phenomenon have been used for several years in receiver protection circuits for high-power high-pulse repetition frequency (PRF) radars. These are known as multipactor devices. Recent technological developments have increased the peak-power handling capability and bandwidth of airborne-qualified devices to 50 kW and 12.5 percent respectively. Life tests on multipactor devices have demonstrated 2500 h of failure free operation.

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