

Abstracts

The Versatile Tunnel-Diode Video Detector

W.F. Gabriel. "The Versatile Tunnel-Diode Video Detector." 1964 PTGMTT International Symposium Program and Digest 64.1 (1964 [MWSYM]): 157-162.

The tunnel-diode video detector to be discussed is shown in Fig. 1; it consists of a diode mount and a ferrite isolator. The isolator is necessary because the tunnel diode is biased into its negative resistance region. The diode mount was designed for operation at the C-band frequency range of 5.4 to 5.9 Gc. This mount is tunable in order to accommodate diode replacement, and its rf bandwidth is adjustable between the limits of roughly 30 Mc to 700 Mc for selected diodes.

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