

Abstracts

Distortion in Microwave and RF Switches by Reverse Biased PIN Diodes

R.H. Caverly and G. Hiller. "Distortion in Microwave and RF Switches by Reverse Biased PIN Diodes." 1989 MTT-S International Microwave Symposium Digest 89.3 (1989 Vol. III [MWSYM]): 1073-1076.

Distortion caused by PIN diode switches can significantly compromise microwave and RF communication system performance. This paper presents an original analytical and experimental study of distortion generated by reverse biased PIN diodes. Concise distortion relationships are presented and compared with the authors' previously published work on forward biased PIN diode distortion. The results indicate that reverse bias distortion can be worse than forward bias distortion, with further degradation as the frequency increases.

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