

Abstracts

Increasing TWTA multi-carrier saturated power with limiters and linearizers

A. Katz. "Increasing TWTA multi-carrier saturated power with limiters and linearizers." 1999 MTT-S International Microwave Symposium Digest 99.1 (1999 Vol. 1 [MWSYM]): 337-340 vol. 1.

TWTA transmission of multi-carrier signals is becoming increasingly common. Frequently, system linearity requirements allow multi-carrier operation of a TWTA at or near saturation. This is often the case when the TWTA is linearized. This paper investigates the relationship between single carrier and multi-carrier saturation. It is shown that by using a limiter-linearizer combination, TWTA 2-carrier saturated power, can be increased by more than 1 dB and TWTA multi-carrier power (/spl ges/4) by more than 2 dB.

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