

Abstracts

Interdependence of Gain and Idler Conversion Loss in Parametric Amplifiers (Letters)

D.N. Singh. "Interdependence of Gain and Idler Conversion Loss in Parametric Amplifiers (Letters)." 1977 Transactions on Microwave Theory and Techniques 25.7 (Jul. 1977 [T-MTT]): 621-622.

Interdependence of gain and idler conversion has been experimentally investigated in parametric amplifiers having, single diode circuit configuration. The results indicate that for high gain amplifiers, the inherent idler rejection is inadequate, and larger lengths of pump waveguide, designed to be below cutoff at idler frequency, are to be used for reducing the effect of pump sideband noise on the noise temperature of the parametric amplifiers.

 [Return to main document.](#)