

Abstracts

High Power Four - Way Power Divider/Combiner

K. Chang, M. Li, K.A. Hummer and R.A. Speciale. "High Power Four - Way Power Divider/Combiner." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1329-1332.

A new 4-way waveguide power divider/combiner has been developed using a radial waveguide. The divider has an insertion loss of less than 0.5 dB and a power balance of ± 0.2 dB over a bandwidth of 2.5 GHz at X-band. A power combiner using this circuit and four Gunn oscillators has been demonstrated with over 70 percent combining efficiency. The circuit should have applications in millimeter-wave power combining and high power microwave systems.

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