

Abstracts

A Wideband 60 GHz 16-Way Power Divider/Combiner Network

T.-I. Hsu and M.D. Simonutti. "A Wideband 60 GHz 16-Way Power Divider/Combiner Network." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 175-177.

A 16-way, low-loss, wideband power divider/combiner network for V-band waveguide is described. This network utilizes a section of radial waveguide operating in the TEM mode. Over a frequency band of 55-67 GHz, this 16-way divider/combiner network has an insertion loss of 1 dB maximum and better than 12 dB return loss. Matching elements which have been designed for each of the three transitions between different transmission media within this network are described in detail.

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