

Abstracts

A Focused Aperture Millimeter Wave Transmission Line

C.O. Yowell. "A Focused Aperture Millimeter Wave Transmission Line." 1970 G-MTT International Microwave Symposium Digest of Technical Papers 70.1 (1970 [MWSYM]): 49-54.

Design details are presented for an open waveguide radar transmission line. This 94 GHz quasi-optical guide is presently in use at The Aerospace Corporation Laboratories, with two focusing mirrors and offset reeds providing power transfer and rotary joint action for a scanning 15' diameter parabolic antenna. Experimental results are given for the beam shapes, phase contours, insertion loss, and isolation of the beam guide.

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