

Abstracts

Design of Conical Corrugated Feed Horns for Wide-Band High-Frequency Applications

X. Zhang. "Design of Conical Corrugated Feed Horns for Wide-Band High-Frequency Applications." 1993 *Transactions on Microwave Theory and Techniques* 41.7 (Aug. 1993 [T-MTT]): 1263-1274.

This paper presents a new analytical procedure for the design of the conical corrugated feed horns used in the millimeter and submillimeter wavelength range, which could achieve wide-band single-mode operation and wide-band, low return-loss impedance matching simultaneously. A test model of the feed horn designed using this procedure displayed excellent performance, and agreed well with the theoretical predictions.

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