Abstracts

High Power X-Band Monopulse Tracking Feed for the Lincoln Laboratory Long-Range Imaging Radar

K.R. Goudey and A.F. Sciambi, Jr.. "High Power X-Band Monopulse Tracking Feed for the Lincoln Laboratory Long-Range Imaging Radar." 1978 Transactions on Microwave Theory and Techniques 26.5 (May 1978 [T-MTT] (Special Issue on High-Power Microwaves)): 326-332.

This paper covers the design, development, and test of a 10-GHz 10-percent bandwidth high-efficiency feed system to be used in a 120-ft Cassegrainian antenna for the M.I.T. Lincoln Laboratory Long Rang Imaging Radar. The feed is a multimode monopulse tracking feed employing a multifare horn and is capable of transmitting a power level of 800 kW at 50-percent duty. The feed will operate in both right- and left-hand circular polarization simultaneously or in both vertical and horizontal polarization simultaneously depending on the input network.

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