

Abstracts

High Phase Accuracy Active Phased Array Module for Multi-Function Radars

C.J. Ward, J.R. Forrest, P. Malamis, A.A. Salles, M.E. Brinson and A.J. Parsons. "High Phase Accuracy Active Phased Array Module for Multi-Function Radars." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 179-181.

The paper describes an S-Band (2.7-3.1GHz) transmit/receive phased array module giving 40W output for 100 μ s pulses at 10% duty cycle. The module incorporates closed-loop phase control to reduce to a low level any phase errors between the input reference signal and the output. Initial work on the development of a fibre optic interface for input of the coherent r.f. reference signal is also described.

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