



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

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Abstract

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Abstract:

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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