Abstracts

A High Power Coherent 95 GHz Radar (HIPCOR-95)

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The Georgia Tech Research Institute is developing, under contract with the U.S. Army Missile Command, a high power, wide band-width, coherent 95 GHz (HIPCOR-95) radar using a traveling wave tube amplifier (TWTA) and an extended interaction klystron amplifier (EIKA). The HIPCOR-95 radar has two modes of operation; a 80 watt peak power, 2 GHz bandwidth mode utilizing the TWTA, and a 1 kW peak power, 350 MHz bandwidth mode utilizing the EIKA. This paper describes the design and fabrication of the waveform signal generator, millimeter wave transmitter, and the polarization agility assembly, and the proposed data collection and processing hardware.

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