Abstracts

Far-Infrared Composite Microbolometers

S.M. Wentworth and D.P. Neikirk. "Far-Infrared Composite Microbolometers." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1309-1310.

Composite microbolometers for use as broad band far-infrared radiation detectors have been constructed. These novel devices utilize nichrome load elements which can be impedance-matched to a planar antenna. The load elements are thermally coupled to tellurium detectors. We achieved room temperature responsivities of 120 V/W, and noise equivalent powers of 6.7 x 10/sup -9/ W//spl radic/Hz.

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