

Abstracts

High-Efficiency Millimeter-Wave Bolometer Mount

*T. Inoue and T. Nemoto. "High-Efficiency Millimeter-Wave Bolometer Mount." 1977
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A bolometer mount is described for measuring TEO/sub 01-mode waveguide power at a frequency of 100 GHz. This device is called an eight-fan-type bolometer mount. By dividing the electrode of the element into eight segments, the generation of an unwanted mode was suppressed, and, by minimizing the electrode area, heat loss due to the electrode was decreased. As a result, good matching characteristics and high effective efficiency were obtained. This mount is sufficiently useful for a precision power measurement in the millimeter-wave region.

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