Abstracts

A high power 270 GHz frequency tripler featuring a Schottky diode parallel pair

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A high output power millimetre wave frequency tripler is reported. Important features of the diode mount include a planar waveguide probe which facilitates the parallel combination of two Schottky varactor diodes and provides them with a more ideal embedding impedance. This approach allows for higher power production and handling ability than a similar device using a single diode. Maximum output power at 271 GHz is 15 mW with a flange to flange efficiency of /spl ap/5%.

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