Abstracts

Cold Tests of Quasi-Optical Gyrotron Resonators (Short Papers)

R.P. Fischer, T.A. Hargreaves and A.W. Fliflet. "Cold Tests of Quasi-Optical Gyrotron Resonators (Short Papers)." 1991 Transactions on Microwave Theory and Techniques 39.6 (Jun. 1991 [T-MTT]): 1010-1012.

Cold tests are performed on quasi-optical gyrotron resonators at frequencies near 94 and 120 GHz to measure cavity Q. The separation between the resonator mirrors is varied between 0.15 and 0.35 m, with measured quality factors ranging from 10000 to 100000. Good agreement is obtained between the measured data and values calculated from scalar diffraction theory. The effect of misaligning the mirrors is also examined experimentally.

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