

Tests of a 110 GHz Gyrotron With Collector Potential Depression

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A 110 GHz gyrotron designed for long-pulse operation at $P_{rf} > 1.0$ MW is being tested at DIII-D. The unit is predicted to have efficiency > 0.4 with collector potential depression. Transmission line components required modification for operation at total rf energies > 5 MJ per pulse.

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