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Stability test of 7 kW SSPA for 325 MHz Single Spoke Resonator

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the RAON accelerator complex is planned in Korea for nuclear science research, and solid state power amplifiers will be used to provide superconducting cavities with rf power. The RAON main accelerator is composed of a normal conducting injector and a superconducting linac. The SC linac uses 3 types of SC cavities which are QWR, HWR and SSR. The SSR is divided into two families of low and high betas. Each cavity is driven by a SSPA. The SSPA, which is developed in house, is based on a 2 kW module. This 2 kW module employs four units of 600 W transistors including isolatr, which are combined by a 4 way combibner utilizing the Gygel method (Isolated combiner). Four modules are combined again with the same kind combiner to produce 7 kW of rf power. This paper describes the stability test result for 325 MHz, 7 kW SSPA.

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