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RF Power Coupling for RAON RFQ

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A radio frequency quadrupole (RFQ) has been constructed as a front accelerator for a rare isotope accelerator facility. The RFQ has two power couplers that are operated simultaneously for high power operation to accelerate from proton to uranium. A coaxial transmission line was adopted to connect each power coupler and an 80kW solid state power amplifier(SSPA) which is consisted with combiners, circulators and 5kW unit amplifiers.

In this study, the coupling to the cavity with two power couplers was investigated for the failure of power units. Moreover, the operation scenario of the RFQ linac was also presented in considering the availability.

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