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Development of a RF Power Coupler for the Rare Isotope Science Project (RISP) RFQ Prototype

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RAON, heavy ion accelerator for rare isotope science, is under development for the Rare Isotope Science Project (RISP) at Institute for Basic Science in South Korea. Radio-Frequency Quadrupole (RFQ), a component of RAON, accelerates heavy ion beams from 10 keV/u up to 500 keV/u at the current of 12 μA and the frequency of 81.25 MHz. For RISP RFQ prototype, a 15kW CW RF power coupler has been designed using 3D electromagnetic, mechanical computer simulation codes. Here, the test results of the fabricated RF power coupler are presented.

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