

150 kW Solid State Amplifier for Booster and Storage Ring

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ELTA is an AREVA subsidiary specialized in Radiofrequency Equipments and High Power Supplies for Aeronautics, Nuclear and Scientific applications.

In the frame of the upgrade of RF Power Amplifiers currently in operation at ESRF Booster (BO) and Storage Ring (SR), ELTA is in charge of the design and manufacturing of seven 150 kW SSA operating at 352 MHz .

This 150kW SSA is based on the pioneering work carried out by SOLEIL team on RF Amplifier Modules and their combination. A strong heritage on this technology is now recognized thanks to the SSA in operation at SOLEIL since several years.

A tight partnership between ELTA and SOLEIL has been set up for the design and the industrialization of this new 150kW SSA in order to achieve significant size saving. This 150 kW SSA features a new generation of modular High Power SSA with improved reliability, availability and maintainability. A new Instrumentation & Control Unit has been designed for achieving an accurate monitoring at LRU level and for performing safe interlocking functions.

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