

Novel technique of solid-state amplifiers design

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A novel technique to build high efficiency, modular, scalable, high availability solid-state amplifiers has been developed. The system allows for easy adjustment of single SSPA RF power to the power profile of the accelerator. High availability due to the use of unique technology of RF switches together with “hot swap” feature allows almost infinite constant running of the machine.

The total cost of ownership of using RF amplifiers during the lifetime of the FCC project is being discussed. The comparison of TCO for the developed technique and competitive solutions will be presented.

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