

150kW SSA for ESRF Booster Upgrade

Wednesday 9 May 2012 10:00 (30 minutes)

In the frame of ESRF Booster Upgrade, ELTA-AREVA has designed and provided four 150kW Amplifier at 352 MHz, based on Solid State Amplifier technology.

The presentation describes main features and performances of the 150 kW SSA that have been qualified on fictive terminations and have been recently connected to Booster cavities.

The SSA is based on 650W LDMOS Power Amplifier Modules, optimized in terms of efficiency. Power coupling, control and monitoring units, thermal management and mechanical structure have been specifically designed for this application.

Author: ABADIE, Jean-Paul (ELTA-AREVA)

Co-author: Mr CAUHEPE, Alain (ELTA-AREVA)

Presenter: ABADIE, Jean-Paul (ELTA-AREVA)

Session Classification: Session 3, hot topic, SSA