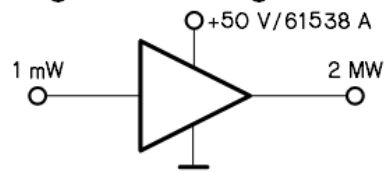


Twelfth Continuous Wave and High Average Power RF Workshop



12.-14.9.2022

CERN

Geneva, Switzerland

<http://cern.ch/CWRF22>

Contribution ID: 24

Type: **Oral presentation 20' + 5'**

RF distribution systems at ESS

Tuesday 13 September 2022 09:45 (25 minutes)

ESS is installing and testing the RF distribution systems including waveguide and coaxial components, circulators, RF loads for up to 155 high power RF systems; > 5000 RFDS components. This talk will present the early quality issues, waveguide tuning and how they were resolved. RFDS components are often considered trivial however, the initial high power operation revealed a number of serious issues with many components. We introduce some of the main issues and summarise the design changes carried out by us and our partners.

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Session Classification: Passive devices

Track Classification: Passive devices and transmission systems