RF PA Distortion Modelling and Predistortion

The project studied techniques to improve the efficiency–linearity trade-off of mobile communication systems’ base-stations, namely on what their most power-hungry component, the power amplifier, is concerned. Earning the 2015 Annual Collaboration Team Award from Huawei Technologies, the IT proposed power amplifier design guidelines are nowadays followed in 25% to 30% of the world base-stations.

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Fig. 2 A high-power multi-carrier GSM Doherty amplifier prototype.