

Acoustic Filters and the Future of Smartphones: Carrier Aggregation and its Challenges

Robert Aigner

Qorvo Inc., Acoustic Technology R&D
1818 S. HW 441, Apopka, FL 32703, USA

robert.aigner@qorvo.com



Robert Aigner was born in Mehrnbach, Austria on June 12th, 1968. He received his M.S. in 1993 and Ph.D. degree in 1996 both from Technical University Munich/Germany for research on micromachined chemical sensors. He was a visiting scientist at UC Berkeley Sensors and Actuators Center BSAC in 1996 where he worked on system design for MEMS inertial sensors.

After returning to Germany he joined the MEMS research group at Siemens Corporate Technology in 1997. Between 1999 and 2005 he was director of a MEMS R&D department at Infineon Technologies and worked on a variety of MEMS devices including Automotive MEMS and RF-MEMS. The team he built and directed became pioneers in commercializing Bulk-Acoustic-Wave (BAW) technology.

In year 2006 he joined TriQuint in Apopka/Florida to establish BAW. In year 2015 TriQuint and RFMD merged and created Qorvo, a leading provider of RF solutions for wireless communication. At Qorvo Robert Aigner is Sr. Director of Acoustic Technology. As such his focus is on driving technology innovations in the fields of SAW and BAW.

Robert Aigner has served in several European committees for Microsystem Technology and was nominated as MEMS-expert for European Commission. He served in the technical program committee of IEEE UFFC and serves as reviewer for JMEMS, Applied Physics Letters and other journals. He has more than 100 patents (from 65 patent families) in the field of BAW, SAW and MEMS granted on his name, he has published more than 110 articles and contributed chapters to three text books.