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(54) **VECTOR NETWORK ANALYZER WITH DIGITAL INTERFACE**

VEKTOR-NETZWERKANALYSATOR MIT DIGITALER SCHNITTSTELLE

ANALYSEUR DE RÉSEAU VECTORIEL À INTERFACE NUMÉRIQUE

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(56) References cited:  
**EP-A2- 0 418 509 EP-A2- 1 181 562**  
**CN-A- 103 605 024 CN-A- 104 849 585**  
**US-A1- 2004 066 857 US-A1- 2006 066 289**  
**US-A1- 2008 317 171 US-A1- 2011 163 762**  
**US-A1- 2015 177 300**

- **PEDRO CRUZ ET AL: "Mixed analog-digital instrumentation for software-defined-radio characterization", MICROWAVE SYMPOSIUM DIGEST, 2008 IEEE MTT-S INTERNATIONAL, IEEE, PISCATAWAY, NJ, USA, 15 June 2008 (2008-06-15), pages 253-256, XP031441421, ISBN: 978-1-4244-1780-3**
- **RIBEIRO DIOGO C ET AL: "Synchronous Oversampled Measurements for the Extraction of Mixed-Signal Behavioral Models in Digital to Analog Integrated Transmitters", IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, PLENUM, USA, vol. 62, no. 12, 1 December 2014 (2014-12-01), pages 3183-3192, XP011566192, ISSN: 0018-9480, DOI: 10.1109/TMTT.2014.2365461 [retrieved on 2014-12-02]**

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- SCHINDLER P C ET AL: "Monolithic GaAs Electro-Optic IQ Modulator Demonstrated at 150 Gbit/s With 64QAM", JOURNAL OF LIGHTWAVE TECHNOLOGY, IEEE, USA, vol. 32, no. 4, 1 February 2014 (2014-02-01), pages 760-765, XP011537170, ISSN: 0733-8724, DOI: 10.1109/JLT.2013.2278381 [retrieved on 2014-01-13]