

Title (en)
METHOD FOR TESTING AN ANALOGUE-TO-DIGITAL CONVERTER UNIT WITH DELTA-SIGMA MODULATION

Title (de)
VERFAHREN ZUM TESTEN EINER ANALOG-DIGITALUMSETZEINHEIT MIT DELTA-SIGMA-MODULATION

Title (fr)
PROCÉDÉ DE TEST D'UNE UNITÉ DE CONVERSION ANALOGIQUE-NUMÉRIQUE À MODULATION DELTA-SIGMA

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Application
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Abstract (en)
[origin: WO2022028657A1] The present invention relates to a method for testing an analogue-to-digital converter unit (1) which is designed to convert an analogue input signal (100) into a digital output signal (200) by means of delta-sigma modulation, the method comprising the steps of: generating an analogue input signal (100); applying a predefined interference signal (300) to the analogue input signal (100) and storing the resulting digital output signal (200) as a test result; identifying that there is a fault if a transfer function of the analogue-to-digital converter unit (1), which function is determined from the test result and the input signal (100), deviates from a predefined target transfer function by greater than a predefined reference value, a fault notification being output if a fault is identified.

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