

High Precision A/D Converter



The MAS9316 is a fast, 16-bit monolithic CMOS multiplying D/A converter designed for direct microprocessor interface. Applications include high-end audio, instrumentation, and other μ P controlled systems. Its high relative accuracy and monotonicity is achieved without laser trimming. This is made possible by the use of a highly accurate, low TCR thin film resistor process and a 4 MSB to 15 decoding design technique. Hidden errors are eliminated by testing all the 65536 different input codes. The device offers advantages including high stability over time and temperature and low sensitivity to output amplifier offset. Typical nonlinearity is 0.004%. It is compatible with SIPEX DAC 9331-16-4 and SP9316C-4.

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<http://www.wirelessdesignmag.com/product-releases/2001/08/high-precision/d-converter>