

ANALOG-TO-DIGITAL CONVERTER COMPARATOR REFERENCE
ARRANGEMENT

ABSTRACT OF THE DISCLOSURE

A circuit reduces the total number of resistors needed to provide the reference voltages to the plurality of comparators (60) in an analog-to-digital converter (10). In such a circuit, a source
5 of voltage potential (30) having first (1) and second (2) terminals is coupled to a string of unit resistances (50) having first and second ends and a plurality of taps between the ends. A first active device (81) has an input coupled to the first terminal (1) of the source of voltage potential (30) and an output coupled to the
10 first end of the string of unit resistances (50). A second active device (80) has an input coupled to the second terminal (2) of the source of voltage potential (30) and an output coupled to the second end of the string of unit resistances (50).

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FIGURE 2