

ABSTRACT

ELECTRONIC CIRCUITRY AND METHOD FOR DETERMINATION OF AMPLITUDES OF RECEIVED SIGNALS

A method and a calculating circuit for generating an output signal representing an actual amplitude of a received digitized signal having a magnitude of the actual amplitude equal or greater than a value of a saturation level of a dynamic range of a receiver. For the determination of the actual amplitude, firstly, a predetermined time interval is selected. Then, a total number of samples of the received digitized signal within the predetermined time interval is calculated. Further, a number of samples of the received digitized signal within the predetermined time interval with the amplitude equal to the saturation level is calculated. Thereafter, a ratio between the number of the samples with the amplitude value equal to the saturation level and the total number of the samples is calculated. For calculation of the magnitude of the actual amplitude a predetermined relationship between the magnitude of the amplitude and the ratio is applied and the output signal representing the actual amplitude is provided.

FIG. 5

