

ABSTRACT

INTEGRATED SINE WAVE GENERATING CIRCUIT

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The invention relates to an integrated high power sine wave carrier circuit for outputting a low distortion high power sine wave. The circuit is used for antennas, and especially for antennas in automotive appliances. The circuit comprises a H-bridge (2) with matched power transistors (4, 6, 8, 10), a sine generator (24) for driving the H-bridge and a regulator (22) for sensing the power applied to the antenna and controlling the current amplitude of the sine wave output by the sine generator. The circuit operates under partial time-working, whereby the integration circuit is turned on or off. The circuit therefore comprises a shutdown pin, for shutting the circuit down in order to allow cooling.

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15 The partial time operation allows the circuit to be integrated on a single die. (figure 2).