

Title (en)

SYSTEM AND METHOD FOR OUTPUT POWER COMPENSATION FOR ACTUAL DEVICE TEMPERATURE

Title (de)

METHODE UND VORRICHTUNG ZUR KOMPENSATION DER AUSGANGSLEISTUNG ABHÄNGIG VON DER AKTUELLEN GERÄTETEMPERATUR

Title (fr)

SYSTEME ET PROCEDE POUR LA COMPENSATION DE LA PUISSANCE DE SORTIE POUR LA TEMPERATURE REELLE D'UN DISPOSITIF

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Application

EP 99969187 A 19990913

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Abstract (en)

[origin: WO0016476A1] An output power adjustment system including an electrical device with a thermal resistance, a temperature sensor adjacent the electrical device, for sensing a temperature thereof, and a controller for adjusting a power dissipation of the electrical device using the temperature and the thermal resistance to control an inner temperature of the electrical device. The system may be used with an RF power amplifier. A linear relationship between the junction temperature, casing temperature and power dissipation is used together with a determined thermal resistance of the device. A method of controlling a temperature of an electrical device includes sensing an outer temperature thereof, and controlling a power dissipation using the outer temperature and a thermal resistance. The system and method allow the junction temperature to be maintained at a substantially constant level.

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