



Electronics for the Future

REF66011 – Reference Design High voltage PTC heating



REF66011 High voltage PTC heating

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Block Diagram



Overview

In electric vehicles that do not produce engine waste heat, by using a PTC heater as a heating heat source and quickly bringing the temperature to the appropriate temperature, it is possible to instantly improve driving stability and cabin comfort. It is also used as a safe discharge circuit for high voltage batteries. This reference design uses a 1200V 40A IGBT (RGS80TSX2DHR) to turn on/off the PTC element.

Application

Automotive High voltage PTC heater

Specification

Items	Parameter
Grade	Automotive
Input voltage(LV)	9V to 16V
Input voltage(HV)	250V to 470V
Output Power	7kW
Board size	120mm x 90mm

More Detail Information (Jump to INTRON(China) web site) https://www.intron-tech.com/en/index.php

Board outline









Related Simulation Circuit





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