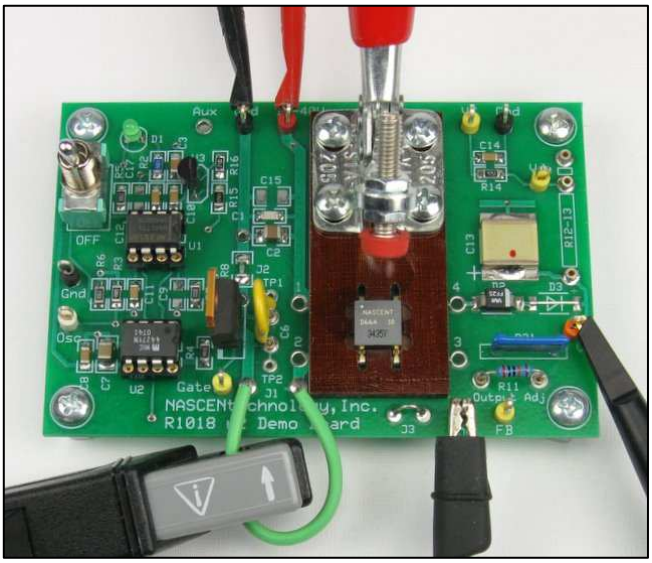
Demo Boards
High Voltage Flyback Charge Circuit
Available for 95069-1, 95072, 95073, 95074, 95075, 95080

Features

Stand alone or external control
Easy change out of transformer
Sockets for snubber cap and Vadj resistor
Test points for each transformer terminal
Sockets for ICs
Current sense loop



Ordering Information

R1015 for D47s, D50s, 95069/73
R1016 for D48s, D58s, 95072/74/75
R1018 for D66s, 95080

NASCENTechnology, Inc. has developed a series of high voltage flyback charge circuit demonstration boards that allow easy testing of LTCC high voltage flyback transformers. The boards can be operated from an external pulse generator in an unregulated mode or use the provided MAX1771 controller in a standard current mode control discontinuous flyback configuration for regulated output. The Vadj resistor allows setting the output voltage in regulated mode. The input voltage range of 12 to 40 VDC can be lowered by bypassing the internal regulator and supplying a 10 VDC aux voltage for the ICs. It can be increased by increasing the voltage rating of the input capacitors. Similarly the output capacitor, rated at 1200 VDC can be easily swapped out for higher values. The peak current limit is set to 2A which can also be adjusted by changing the sense resistor. The De-sta-co clamp allows mounting and changing transformers without soldering. By removing J3 the secondary can be made floating, however feedback for regulation is disabled (an external opto-isolator circuit could be substituted). Sockets are also provided for quick adjustment of the MOSFET snubber capacitor. A current loop is provided for monitoring peak input current. The board comes with a 100 nF capacitor and 200 Mohms sense/discharge resistor.

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Specifications subject to change without notice. 03/13