

Here is a Modification to fix the Heat problem on these Desk Top Chargers using HXN-WS, SC6038 and AM6138 IC's.

Just replace the 0.5 ohm resistor (PIN 7 IC) with a 1 ohm resistor, very simple, this will Half the Charge current, Double the Charge Time and Half the Power Dissipation / Temperature.

Approximately **400ma** Charge current to **200ma** Charge current.

Approximately **5hrs** Charge Time to **10hrs** Charge Time.

Approximately **1.2W** Power Dissipation to **600mw** Power Dissipation.

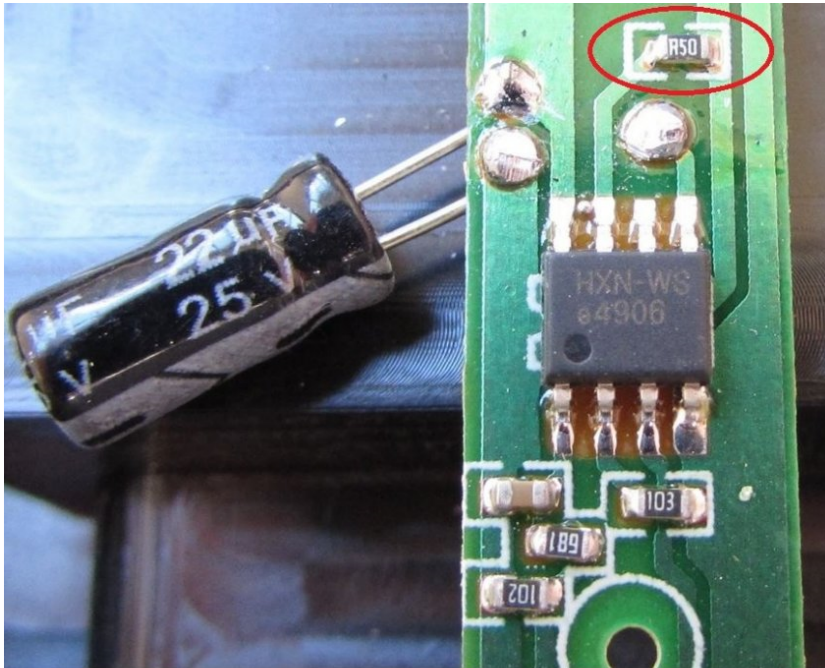
This lower the Temperature of the HXN- WS (SC6038, AM6138) IC from about **64 °C** to **32 °C** .

Hope Helps the this someone.

John vk3hjg

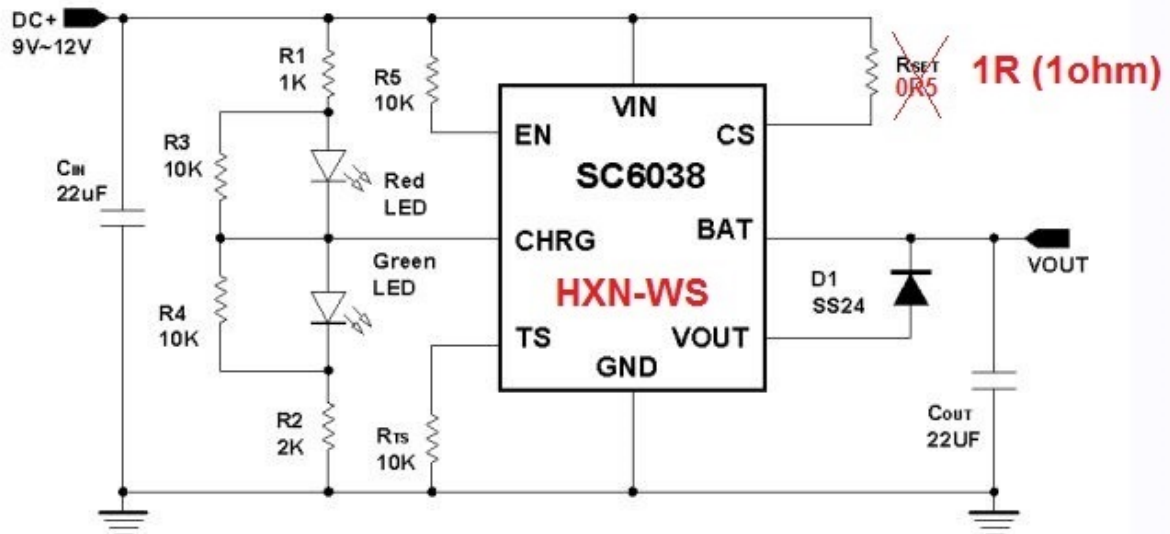
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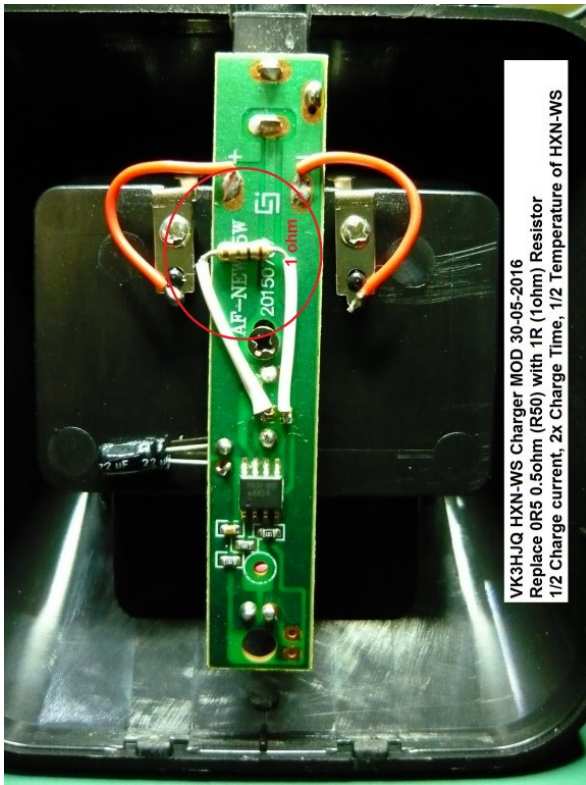
VK3HJQ HXN-WS Charger MOD 30-05-2016

Replace 0R5 0.5ohm (R50) with 1R (1ohm) Resistor
1/2 Charge current, 2x Charge Time, 1/2 Temperature of HXN-WS



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Here is a the New Desk Top Charger using NO IC's.

Red LED ON: Charging.
 Red to Green LED changes @ 8.49 Volts.
 Green LED ON: 9.97 Volts.

Maximum output Charge Voltage should be 8.4 Volts +/- 1 per cent, **NOT** 9.97 Volts.

Hope this helps someone.

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