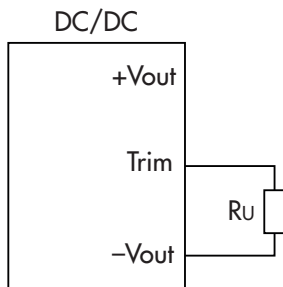## Output Voltage Adjustment

This feature allows increasing and decreasing the output voltage of single output models. This is accomplished by connecting an external resistor between the Trim pin an either the +Vout or -Vout pin. The resulting external Trim resistor is specified in Ohm and needs to be at least 1/16 Watt of rated power.

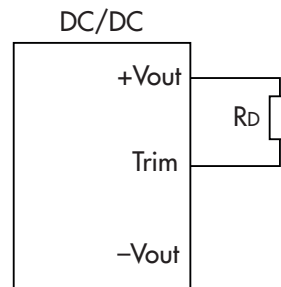For trimming up, it must be assured that max. output power is not exceeded.

Connection of trim up resistor

DC/DC

+Vout

Trim

R_U

–Vout

Connection of trim down resistor

DC/DC

+Vout

R_D

Trim

–Vout

Trim up equation

$$R_U = \frac{G \cdot L}{\left(U_{out,up} - L - K\right)} - H$$

Trim down equation

$$R_D = \frac{\left(U_{out,down} - L\right) \cdot G}{\left(U_{out,nom} - U_{out,down}\right)} - H$$

Trim constants				
Models	**G**	**H**	**K**	**L**
THN 10-xx10WIR	5110	2050	0.8	2.5
THN 10-xx11WIR	5110	2050	2.5	2.5
THN 10-xx12WIR	10000	5110	9.5	2.5
THN 10-xx13WIR	10000	5110	12.5	2.5
THN 10-xx15WIR	56000	13000	21.5	2.5

For example: Trim up model THN 10-2411WIR with ΔU = 10 % to output voltage of Uout,up = 5.5 V

$$R_U = \frac{G \cdot L}{\left(U_{out,up} - L - K\right)} - H = \frac{5110 \cdot 2.5}{(5.5 - 2.5 - 2.5)} - 2050 = 23500 \, \Omega$$

Specifications can be changed without notice!