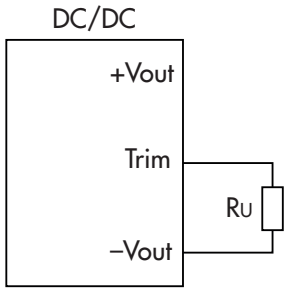
Output Voltage Adjustment

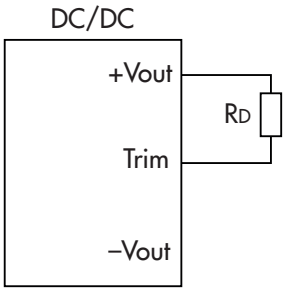
This feature allows increasing and decreasing the output voltage of single output models. This is accomplished by connecting an external resistor between the Trim pin an either the +Vout or -Vout pin. The resulting external Trim resistor is specified in Ohm and needs to be at least 1/16 Watt of rated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

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

Connection of trim up resistor



Connection of trim down resistor



Trim up equation

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

Trim down equation

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

Trim constants

Models	G	H	K	L
THN 15-xx10N	5110	2050	0.8	2.5
THN 15-xx11N	5110	2050	2.5	2.5
THN 15-xx12N	10000	5110	9.5	2.5
THN 15-xx13N	10000	5110	12.5	2.5
THN 15-xx15N	56000	13000	21.5	2.5

For example: Trim up model THN 15-2411N with $\Delta U = 10$ % to output voltage of $U_{out,up} = 5.5$ V

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