

Voltage Stabilizer

The TAA550 is an integrated monolithic voltage stabilizer, especially designed to provide the supply voltage for varicaps in TV-tuners independent of supply voltage and temperature variations.

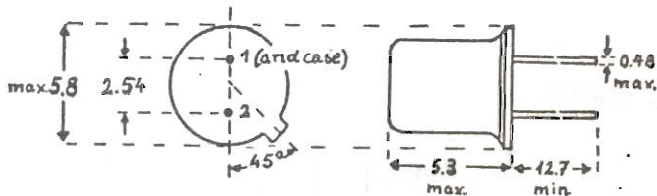
Quick reference data:

Supply current	$I_1 = 5 \text{ mA}$
Stabilized voltage	$V_{12} = \text{min. } 31\text{V}$ max. 35V
Differential internal resistance	$r_{12} = 12 \Omega$

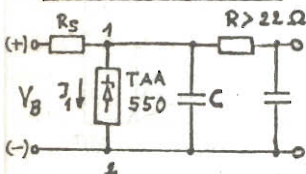
Package

TO-18, 2 pin

Dimensions in mm.

Absolute maximum ratings:

Storage temperature	-20°C to +150°C
Supply current)))) see derating curve
Ambient temperature	
Case temperature	

Recommended circuit:

e.g. $V_B = +200\text{V}$
 $R_S = 33 \text{ k}\Omega$

$$300 \text{ pF} \leq C \leq 4700 \text{ pF}$$

Characteristics:

Supply current

$$I_1 = 5 \text{ mA}$$

Stabilized voltage

$$V_{12} = \begin{matrix} \text{min. } 31\text{V} \\ \text{max. } 35\text{V} \end{matrix}$$

Differential internal resistance at 1KHz

$$r_{12} = 12 \Omega (< 25 \Omega)$$

$$\text{Temperature coefficient } -3,1 \frac{\text{mV}}{\text{°C}} \leq \frac{\Delta V_{12}}{\Delta t_{\text{amb}}} \leq +1,5 \frac{\text{mV}}{\text{°C}}$$

$$(10^\circ\text{C} \leq t_{\text{amb}} \leq 50^\circ\text{C})$$

The TAA550 is supplied in 3 voltage groups:

Stabilized voltage V_{12} :

- 1) min. 31V - max 32V
- 2) min. 32V - max 34V
- 3) min. 34V - max 35V

colour code

- red dot
- yellow dot
- green dot

DERATING CURVE

