

| Type | Allgemeine Daten General data | | Betriebswerte Typical operation | | Grenzwerte Maximum ratings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <p>EL 156</p> <p>NF-Leistungspentode für Leistungsverstärker in Eintakt-A- und Gegentakt-schaltungen, Modulationsverstärker</p> <p>AF-powerpentode for power-amplifiers class A and push-pull, modulation amplifiers</p> | <p>Stahl 10 Größe 55 Outlines 55</p> <p>Stift · Pin</p> <table border="0"> <tr><td>1</td><td>—</td></tr> <tr><td>2</td><td>f</td></tr> <tr><td>3</td><td>f</td></tr> <tr><td>4</td><td>—</td></tr> <tr><td>5</td><td>a</td></tr> <tr><td>6</td><td>g₂</td></tr> <tr><td>7</td><td>—</td></tr> <tr><td>8</td><td>g₁</td></tr> <tr><td>9</td><td>k, g₃</td></tr> <tr><td>10</td><td>—</td></tr> </table> | 1 | — | 2 | f | 3 | f | 4 | — | 5 | a | 6 | g ₂ | 7 | — | 8 | g ₁ | 9 | k, g ₃ | 10 | — | <p>$U_f = 6,3 \text{ V}$ $I_f \text{ ca. } 1,9 \text{ A}$</p> <hr/> <p>indirekt geheizt indir. heated</p> <hr/> <p>$U_{ba} = 440 \text{ V}$ $U_{bg2} = 350 \text{ V}$ $R_k = 150 \Omega$ $I_a = 100 \text{ mA}$ $I_{g2} = 16 \text{ mA}$ $S = 11 \text{ mA/V}$ $\mu_{g2g1} = 15$</p> | <p>Eintakt-A-Betrieb AF-power-amplifier, class A</p> <table border="0"> <tr><td>U_a</td><td>= 350 V</td></tr> <tr><td>U_{g2}</td><td>= 250 V</td></tr> <tr><td>R_k</td><td>= 60 Ω</td></tr> <tr><td>I_a</td><td>= 120 mA</td></tr> <tr><td>I_{g2}</td><td>= 15 mA</td></tr> <tr><td>R_a</td><td>= 4 kΩ</td></tr> <tr><td>$U_{g1 \text{ eff}} (N)$</td><td>= 6 V</td></tr> <tr><td>$N (8\%)$</td><td>= 15 W</td></tr> </table> <p>2 Röhren Gegentakt-AB-Betrieb in Triodenschaltung 2 tubes push-pull, class AB triodes connection</p> <table border="0"> <tr><td>U_{ag2}</td><td>= 500 V</td></tr> <tr><td>R_k</td><td>= 2x250 Ω</td></tr> <tr><td>I_{ko}</td><td>= 2x110 mA</td></tr> <tr><td>$I_k \text{ ausgest.}$</td><td>= 2x120 mA</td></tr> <tr><td>$U_{g1 \text{ eff}} (N)$</td><td>= 22 V</td></tr> <tr><td>R_{aa}</td><td>= 2,8 kΩ</td></tr> <tr><td>$N (2\%)$</td><td>= 30 W</td></tr> </table> | U_a | = 350 V | U_{g2} | = 250 V | R_k | = 60 Ω | I_a | = 120 mA | I_{g2} | = 15 mA | R_a | = 4 k Ω | $U_{g1 \text{ eff}} (N)$ | = 6 V | $N (8\%)$ | = 15 W | U_{ag2} | = 500 V | R_k | = 2x250 Ω | I_{ko} | = 2x110 mA | $I_k \text{ ausgest.}$ | = 2x120 mA | $U_{g1 \text{ eff}} (N)$ | = 22 V | R_{aa} | = 2,8 k Ω | $N (2\%)$ | = 30 W | <table border="0"> <tr><td>U_a</td><td>= 450 V</td></tr> <tr><td>U_{g2}</td><td>= 280 V</td></tr> <tr><td>R_k</td><td>= 90 Ω</td></tr> <tr><td>I_a</td><td>= 112 mA</td></tr> <tr><td>I_{g2}</td><td>= 17 mA</td></tr> <tr><td>R_a</td><td>= 3,8 kΩ</td></tr> <tr><td>$U_{g1 \text{ eff}} (N)$</td><td>= 9,2 V</td></tr> <tr><td>$N (9\%)$</td><td>= 25 W</td></tr> </table> <p>2 Röhren Gegentakt-AB-Betrieb fixed grid bias</p> <table border="0"> <tr><td>U_a</td><td>= 800 V</td></tr> <tr><td>U_{g2}</td><td>= 350 V</td></tr> <tr><td>U_{g1}</td><td>= -24 V</td></tr> <tr><td>I_{ao}</td><td>= 2x45 mA</td></tr> <tr><td>$I_a \text{ ausgest.}$</td><td>= 2x120 mA</td></tr> <tr><td>I_{g20}</td><td>= 2x5 mA</td></tr> <tr><td>$I_{g2 \text{ ausgest.}}$</td><td>= 2x25 mA</td></tr> </table> | U_a | = 450 V | U_{g2} | = 280 V | R_k | = 90 Ω | I_a | = 112 mA | I_{g2} | = 17 mA | R_a | = 3,8 k Ω | $U_{g1 \text{ eff}} (N)$ | = 9,2 V | $N (9\%)$ | = 25 W | U_a | = 800 V | U_{g2} | = 350 V | U_{g1} | = -24 V | I_{ao} | = 2x45 mA | $I_a \text{ ausgest.}$ | = 2x120 mA | I_{g20} | = 2x5 mA | $I_{g2 \text{ ausgest.}}$ | = 2x25 mA | <table border="0"> <tr><td>U_{ao}</td><td>= 1600 V</td></tr> <tr><td>U_a</td><td>= 800 V</td></tr> <tr><td>N_a</td><td>= 50 W</td></tr> <tr><td>$N_a^{1)}$</td><td>= 40 W</td></tr> <tr><td>U_{g20}</td><td>= 800 V</td></tr> <tr><td>U_{g2}</td><td>= 450 V</td></tr> <tr><td>N_{g2}</td><td>= 8 W</td></tr> <tr><td>$N_{g2 \text{ ausgest.}}$</td><td>= 12 W</td></tr> <tr><td>I_k</td><td>= 180 mA</td></tr> <tr><td>R_{g1}</td><td>= 100 kΩ</td></tr> <tr><td>U_{fk}</td><td>= 50 V</td></tr> <tr><td>R_{fk}</td><td>= 1 kΩ</td></tr> <tr><td>t_{Kolben}</td><td>= 230 °C</td></tr> </table> <p>Als Triode As triode</p> <table border="0"> <tr><td>U_{ag2}</td><td>= 500 V</td></tr> </table> <p>¹⁾ $U_{g1 \text{ fest}}$ fixed grid bias</p> <p>Zubehör · Accessories Fassung Lg.-Nr. 30 215 Socket stock no. 30 215</p> | U_{ao} | = 1600 V | U_a | = 800 V | N_a | = 50 W | $N_a^{1)}$ | = 40 W | U_{g20} | = 800 V | U_{g2} | = 450 V | N_{g2} | = 8 W | $N_{g2 \text{ ausgest.}}$ | = 12 W | I_k | = 180 mA | R_{g1} | = 100 k Ω | U_{fk} | = 50 V | R_{fk} | = 1 k Ω | t_{Kolben} | = 230 °C | U_{ag2} | = 500 V |
| 1 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | f | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | f | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | a | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | g ₂ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | g ₁ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | k, g ₃ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | — | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U_a | = 350 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U_{g2} | = 250 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R_k | = 60 Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I_a | = 120 mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I_{g2} | = 15 mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R_a | = 4 k Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $U_{g1 \text{ eff}} (N)$ | = 6 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $N (8\%)$ | = 15 W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U_{ag2} | = 500 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R_k | = 2x250 Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I_{ko} | = 2x110 mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $I_k \text{ ausgest.}$ | = 2x120 mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $U_{g1 \text{ eff}} (N)$ | = 22 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R_{aa} | = 2,8 k Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $N (2\%)$ | = 30 W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U_a | = 450 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U_{g2} | = 280 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R_k | = 90 Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I_a | = 112 mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I_{g2} | = 17 mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R_a | = 3,8 k Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $U_{g1 \text{ eff}} (N)$ | = 9,2 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $N (9\%)$ | = 25 W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U_a | = 800 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U_{g2} | = 350 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U_{g1} | = -24 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I_{ao} | = 2x45 mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $I_a \text{ ausgest.}$ | = 2x120 mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I_{g20} | = 2x5 mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $I_{g2 \text{ ausgest.}}$ | = 2x25 mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U_{ao} | = 1600 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U_a | = 800 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N_a | = 50 W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $N_a^{1)}$ | = 40 W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U_{g20} | = 800 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U_{g2} | = 450 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N_{g2} | = 8 W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $N_{g2 \text{ ausgest.}}$ | = 12 W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I_k | = 180 mA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R_{g1} | = 100 k Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U_{fk} | = 50 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R_{fk} | = 1 k Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| t_{Kolben} | = 230 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U_{ag2} | = 500 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="0"> <tr><td>R_{aa}</td><td>= 9,5 kΩ</td></tr> <tr><td>$U_{g1 \text{ eff}} (N)$</td><td>= 18 V</td></tr> <tr><td>$N (6\%)$</td><td>= 130 W</td></tr> </table> | R_{aa} | = 9,5 k Ω | $U_{g1 \text{ eff}} (N)$ | = 18 V | $N (6\%)$ | = 130 W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R_{aa} | = 9,5 k Ω | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $U_{g1 \text{ eff}} (N)$ | = 18 V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| $N (6\%)$ | = 130 W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

