

OUTPUT PENTODE

EL131

Output pentode rated for 35W anode dissipation intended for use in the audio frequency range.

HEATER

| | | |
|----|-----|---|
| Vh | 6.3 | V |
| Ih | 1.5 | A |

CAPACITANCES

| | | |
|-------|----|----|
| ca-g1 | 2 | pF |
| cin | 15 | pF |
| cout | 10 | pF |

CHARACTERISTICS

| | | |
|--------|-----|------|
| Va | 250 | V |
| Vg2 | 250 | V |
| Vg3 | 0 | V |
| Ia | 100 | mA |
| Ig2 | 15 | mA |
| Vg1 | -12 | V |
| gm | 11 | mA/V |
| ra | 15 | kΩ |
| μg1-g2 | 11 | |

OPERATING CONDITIONS FOR TWO VALVES IN PUSH-PULL

Distributed load conditions with screen-grid tapping at 20% of primary turns.

Cathode bias

| | | |
|-------------------|-------|----|
| Vb | 450 | V |
| Rg2 (per valve) | 270 | Ω |
| Rk (per valve) | 320 | Ω |
| Ra-a | 4.75 | kΩ |
| Ik(o) | 2x95 | mA |
| Vin (20 g) r.m.s. | 50 | V |
| Pout | 50 | W |
| Dist | 2.0 | % |
| Ik (max sig.) | 2x115 | mA |

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Fixed bias

| | | |
|-------------------|-------|------------|
| Vb | 550 | V |
| Rg2 (per valve) | 270 | Ω |
| Vg1 | -50 | V |
| Ra-a | 4.5 | k Ω |
| Ik(o) | 2x50 | mA |
| Vin(g1-g1) r.m.s. | 62 | V |
| Pout | 100 | W |
| Dtot | 2.5 | % |
| Ik (max.sig.) | 2x170 | mA |

LIMITING VALUES

| | | |
|------------------------------|-----|------------|
| va(pk)max. | 2.0 | kV |
| Va max. | 600 | V |
| pa max. | 35 | W |
| Vg2 max. | 600 | V |
| pg2 max. | 8.0 | W |
| Ik max. | 175 | mA |
| Rg1-k max. (cathode bias) | 700 | k Ω |
| Rg1-k max. (fixed bias) | 500 | k Ω |
| Vh-k max. (cathode positive) | 150 | V |

Triode connected

| | | |
|------------|-----|---|
| Va max. | 600 | V |
| pa+g2 max. | 40 | W |

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