ELECTRONIC TUBE REFERENCE

# 5871

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
**1 SECTION**
CONSTRUCTION
**BEAMPOWER**

> Special beam-power amplifier functionally comparable to the 6V6GT family, with published Class-A operating data supporting receiver and audio power-output service.

## General characteristics

| | | | |
|---|---|---|---|
| **BASE DESIGNATION** | 7AC | **BASE PINS** | 7 |
| **NOMINAL HEATER** | 6.3 V / 450 mA | **PARALLEL HEATER** | — / — |
| **HEATING** | Indirect | **SERIES OPERATION** | Not specified |
| **CATHODE ARRANGEMENT** | Separate cathodes | **SECTION CONSTRUCTION** | Similar |

## 7AC - Terminal pinout

| TERMINAL | SECTION | ELEMENT | STATUS |
|---|---|---|---|
| PIN1 — Pin 1 | — | — | NC · verified |
| PIN2 — Pin 2 | — | H — Heater | CONNECTED · verified |
| PIN3 — Pin 3 | A | P — Plate (Anode) | CONNECTED · verified |
| PIN4 — Pin 4 | A | G2 — Screen Grid | CONNECTED · verified |
| PIN5 — Pin 5 | A | G1 — Control Grid | CONNECTED · verified |
| PIN7 — Pin 7 | — | H — Heater | CONNECTED · verified |
| PIN8 — Pin 8 | A | BP — Beam-Forming Plate | CONNECTED · verified |
| PIN8 — Pin 8 | A | K — Cathode | CONNECTED · verified |

# Section ratings

| SECTION1 Beam Power | |
|---|---|
| **PLATE RESISTANCE** | 77000 Ω |
| **TRANSCONDUCTANCE** | 0.00375 S |
| **MAXIMUM PLATE VOLTAGE** | 315 V |
| **MAXIMUM SCREEN VOLTAGE** | 285 V |

*Promoted from clearly identified printed ratings/characteristics; additional published operating points, capacitances, and specialized ratings retained in TUBE_SECTION_PARAMETER.*

> Special beam-power amplifier equivalent in application to the 6V6-GT family.

SOURCE OPERATING CONDITIONS

SOURCE PDF

# 195X General Electric Essential Characteristics

Published test conditions and operating points. Values on this page are preserved as reported by this source.

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

## Section 1 · Beam Power

| CAPACITANCE | | |
|---|---|---|
| **PARAMETER** | **PUBLISHED VALUE** | **CONDITION / NOTE** |
| Input capacitance | **9.5 pF** | Section1 |
| Output capacitance | **7.5 pF** | Section1 |
| Grid-to-plate capacitance | **0.7 pF** | Section1 |

| OTHER | | |
|---|---|---|
| **PARAMETER** | **PUBLISHED VALUE** | **CONDITION / NOTE** |
| Plate voltage | **315 V** | ClassA |
| Screen voltage | **225 V** | ClassA |
| Control-grid voltage | **-13 V** | ClassA |
| Plate current | **34 mA** | ClassA |
| Screen current | **2.2 mA** | ClassA |
| Load resistance | **8500 Ω** | ClassA |
| Power output | **5.5 W** | ClassA |

| CHARACTERISTIC | | |
|---|---|---|
| **PARAMETER** | **PUBLISHED VALUE** | **CONDITION / NOTE** |
| Plate resistance | **77000 Ω** | ClassA |
| Transconductance | **3750 µS** | ClassA |

## Tube Tinker

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