6F6 6F6-G 6F6-GT

POWER PENTODE

Metal type 6F6 and glass octal types 6F6-G and 6F6-GT used in the audio output stage of ac receivers.

Tubes are capable of large power output with relatively small input voltage.



Outlines 6, 42 and 26, respectively, OUTLINES SECTION. Type 6F6-GT may be supplied with pin No.1 omitted. Tubes require octal socket and may be mounted in any position. It is especially important that these tubes, like other power-handling tubes, be adequately ventilated. Types 6F6-G and 6F6-GT are used principally for renewal purposes.

| HEATER VOLTAGE (AC/DC) | | | 6.3 0.7 | volts ampere |
|--|-----------|-----------------------|-----------------------------------|---------------------|
| CLASS A, AMPLIFIER | | | | |
| Maximum Ratings: | | Pentode Connection | Triode Connection | |
| PLATE VOLTAGE | | 375 max | $350 \ max$ | volts |
| GRID-NO.2 (SCREEN-GRID) VOLTAGE | | | - . | volts |
| PLATE DISSIPATION | | | 10 max | watts |
| PEAK HEATER-CATHODE VOLTAGE: | | 3.13 max | _ | watts |
| Heater negative with respect to cathode | | 90 max | 90 max | volts |
| Heater positive with respect to cathode | | $90 \ max$ | $90 \ max$ | volts |
| Typical Operation: | | ntode ection | Triode Connection [♠] | |
| Plate Voltage | 250 | 285 | 250 | volts |
| Grid-No.2 Voltage | 250 | 285 | | volts |
| Grid-No.1 (Control-Grid) Voltage | -16.5 | -20 | -20 | volts |
| Peak AF Grid-No.1 Voltage | 16.5 | 20 | 20 | volts |
| Zero-Signal Plate Current | 34 36 | 38 40 | 31 34 | ma |
| Zero-Signal Grid-No.2 Current. | 6.5 | 7 | 9.4 | ma ma |
| Maximum-Signal Grid-No.2 Current | 10.5 | 13 | _ | ma |
| Amplification Factor | | | 6.8 | |
| Plate Resistance (Approx.) | 80000 | 78000 | 2600 | ohms |
| Transconductance | 2500 | 2550 | 2600 | $\mu \mathrm{mhos}$ |
| Load Resistance | 7000 8 | 7000 9 | 4000 6.5 | ohms |
| Maximum-Signal Power Output | 3.2 | 4.8 | 0.85 | per cent watts |
| | | | | |
| Maximum Ratings: PUSH-PULL CLASS A, AMPLIFIER | | | | |
| | | | | |
| (Same as for class A ₁ amplifier) | | | | |
| Typical Operation (Values are for two tubes): Plate Voltage. | | | 017 | |
| Grid-No.2 Voltage. | | | $\frac{315}{285}$ | volts volts |
| Grid-No.1 (Control-Grid) Voltage. | | | -24 | volts |
| Peak AF Grid-No.1-to-Grid-No.1 Voltage | | | 48 | volts |
| Zero-Signal Plate Current | | | 62 | ma |
| Maximum-Signal Plate Current | | | 80 | ma |
| Zero-Signal Grid-No.2 Current. | | | 12 19.5 | ma |
| Maximum-Signal Grid-No.2 Current | | | 10000 | ma ohms |
| Total Harmonic Distortion | | | 4 | per cent |
| Maximum-Signal Power Output | | | 11 | watts |
| Maximum Circuit Values: | | | | |
| Grid-No.1 Circuit Resistance: | | | | |
| For fixed-bias operation | | | 0.1 max | megohm |
| For cathode-bias operation | | | 0.5 max | megohm |
| ▲ Grid No.2 connected to plate. | | | | |