

Forced-air-cooled power-amplifier triode designed for audio-frequency Class-A amplifier and modulator service, with 4-kW plate dissipation.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | — / —             | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                             |       |
|---------------------------------------------|-------|
| SECTION1 Triode                             |       |
| AMPLIFICATION FACTOR                        | 6     |
| MAXIMUM CATHODE CURRENT                     | 2.2 A |
| Source-derived physical/electrical section. |       |

Westinghouse 75635 July 15, 1961 POWER AMPLIFIER TRIODE TYPE 7565 The 7565 is a three electrode tube designed for use as a modulator or amplifier. The anode is capable of dissipating 4 kilowatts of power in Continuous Commercial Service. Cooling is accomplished by forced air. The cathode is a thoriated tungsten filament, Maximum ratings apply for audio frequencies. ELECTRICAL: AUDIO FREQUENCY POWER AMPLIFIER Min. Bogey Max. AND MODULATOR-CLASS A Filament Voltage. . . . . 57 6.0 6.3 Volts MAXIMUM RATINGS: Filament Current . . . . . 57 60 63 Amperes Absolute Maximum Values Filament Starting Current. . . . . 300 Amperes DC Plate Voltage . . . . . 8.0 max. Kilovolts Filament Resistance, (cold). . . . . .06 .- Ohms Negative DC Grid Voltage . . . . . 1000 max. Volts Amplification Factor. . . . . 6.0 .- Plate Input. . . . . 4.0 max. Kilowatts Direct Interelectrode Capacitances (Avg.): Plate Dissipation. . . . . 4.0 max.

SOURCE OPERATING CONDITIONS

SOURCE PDF

# 1947 Westinghouse

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

1947 WESTINGHOUSE

## Section 1 · Triode

| OTHER                                                             |                 |                                                                                                               |
|-------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------|
| PARAMETER                                                         | PUBLISHED VALUE | CONDITION / NOTE                                                                                              |
| POWER AMPLIFIER TRIODE TYPE                                       | 7565            | POWER AMPLIFIER TRIODE TYPE 7565                                                                              |
| The                                                               | 7565            | The 7565 is a three electrode tube designed for use as a modulator or amplifier. The anode is capable of      |
| dissipating                                                       | 4               | dissipating 4 kilowatts of power in Continuous Commercial Service. Cooling is accomplished by forced air. The |
| Filament Yoltage                                                  | 6.3             | Filament Yoltage. . . . . 57 6.0 6.3 Volts                                                                    |
| Filomant Current . . . . .<br>..0 0                               | 63              | Filomant Current . . . . . 57 60 63 Amperes                                                                   |
| Filament Starting Current                                         | 300             | Filament Starting Current. . . . . - - 300 Amperes                                                            |
| DC Plate Yoltage . . . . e e                                      | 8               | DC Plate Yoltage . . . . e e 8.0 max. Kilovolts                                                               |
| Plate lnput. . . . i i ittt<br>e s v v e vn                       | 4               | Plate Input. . . . i i ittt e s v v e vn 4.0 max. Kilowatts                                                   |
| Plate Dissipation. . . . .<br>e e                                 | 4               | Plate Dissipation. . . . . e e 4.0 mox. Kilowatts                                                             |
| Grid-Plata . . , . e e e s e<br>e e                               | 14              | Grid-Plata . . , . e e e s e e 14 upf                                                                         |
| Grid-Filament . . , , ...<br>... e es e it e                      | 15              | Grid-Filament . . , , ... e es e it e 15 ppf                                                                  |
| DC Plate Voltage, . « v v vv<br>vt v v a s v v nnae               | 4500            | DC Plate Voltage, . « v v vv vt v v a s v v nnae 4500 Yaits                                                   |
| MECHANICAL: DCGrid Voltage o<br>v v v v i v v v et v e v e v<br>= | 570             | MECHANICAL: DCGrid Voltage o v v v v i v v v et v e v e v =570 Volts                                          |
|                                                                   |                 |                                                                                                               |

| PARAMETER                                                                                                       | PUBLISHED VALUE | CONDITION / NOTE                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Mounting Position . . . . .<br>... .., Vertical, Anode Up<br>or Dawn Peak AF Grid<br>Voltage. . . o v v v v e v | <b>570</b>      | Mounting Position . . . . ., Vertical, Anode Up<br>or Dawn Peak AF Grid Voltage. . . o v v v v e v o o<br>v o e et 570 Volts         |
| Type of Cooling . o o i t t t e<br>i i Farced Air Peak AF Plate<br>Voltage. . v v o o v v v v o<br>v v t        | <b>2700</b>     | Type of Cooling . o o i t t t e i i Farced Air Peak AF<br>Plate Voltage. . v v o o v v v v o v v t 2700 Volts                        |
| Maximum [incoming Air<br>Temperature . . . , . . . v                                                            | <b>0.88</b>     | Maximum [incoming Air Temperature . . . , . . v<br>0 v v w v 45 *C DC Plate Current. o v v v v v i e s<br>v n e e e ans 0.88 Amperes |
| Air Flow-Cubic Feet per<br>Minute                                                                               | <b>250</b>      | Air Flow-Cubic Feet per Minute . . . . . 300 200<br>125 Power Output _ . @ v i i i t i i i c e e e 250<br>Watts                      |
| DC Plate Voltage, o . . v v<br>s v v s v v o s B                                                                | <b>0</b>        | DC Plate Voltage, o . . v v s v v s v v o s B.0 max<br>Kilovolts                                                                     |
| DC Plate Current, , . o - o<br>i v v n n v a n s                                                                | <b>2.5</b>      | DC Plate Current, , . o - o i v v n n v a n s 2.5 max<br>Amperes                                                                     |
| Negative DC Grid Voltage . .<br>. . . . . ,                                                                     | <b>1500</b>     | Negative DC Grid Voltage . . . . . , .. 1500 max<br>volts                                                                            |
| Plate Input. . . . . v .<br>PR                                                                                  | <b>8</b>        | Plate Input. . . . . v . PR 8.0 max Kilowatts                                                                                        |
| Plate Dissipation. v v v u w v<br>v v e v v v f                                                                 | <b>0</b>        | Plate Dissipation. v v v u w v v v e v v v f.0 max<br>Kilowatts                                                                      |
| DC Plate Voltage . . . . .o<br>v i v v i v                                                                      | <b>7</b>        | DC Plate Voltage . . . . .o v i v v i v 7.0 Kilovolts                                                                                |
| DC Grid Voltage . . « o v i<br>i t e t i t e a s ~                                                              | <b>1140</b>     | DC Grid Voltage . . « o v i i t e t i t e a s ~1140 Volts                                                                            |
| Tip-off A Peak AF Grid to<br>Grid Voltage                                                                       | <b>2280</b>     | Tip-off A Peak AF Grid to Grid Voltage. . . . . 0<br>.. 2280 Volts                                                                   |
| Zero Signal Plate Current .<br>. v v v v v v v v v o v                                                          | <b>0.5</b>      | Zero Signal Plate Current . . v v v v v v v v v o v<br>0.5 Amperes                                                                   |
| Maximum Signal DC Plate<br>Current . . . . ,                                                                    | <b>2.2</b>      | Maximum Signal DC Plate Current . . . . , . . . 2.2<br>Amperes                                                                       |
| .. 2.2 Kilovolts                                                                                                | <b>2.2</b>      | .. 2.2 Kilovolts                                                                                                                     |
| .. . . . 0 Watts                                                                                                | <b>0</b>        | .. . . . 0 Watts                                                                                                                     |
| Gy,- Grid Maximum Signal<br>Power Output . . . . v v v v<br>v v                                                 | <b>7.7</b>      | Gy,- Grid Maximum Signal Power Output . . . . v v<br>v v v v 7.7 Kilowatts                                                           |

| CHARACTERISTIC              |                 |                                                                        |
|-----------------------------|-----------------|------------------------------------------------------------------------|
| PARAMETER                   | PUBLISHED VALUE | CONDITION / NOTE                                                       |
| Filament Resistance, (cold) | <b>6</b>        | Filament Resistance, (cold). ... .. -- .06 .- Ohms                     |
| Amplification Factor        | <b>6</b>        | Amplification Factor. . . . . -- 6.0 - -                               |
| Fy - Filamen                | <b>5100</b>     | Fy - Filamen1 Effective Load Resistance {Plate to Plote). .. 5100 Ohms |

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