

ELECTRONIC TUBE REFERENCE

6HK5

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA  
1 SECTION  
CONSTRUCTION  
TRIODE

6HK5 gain-controlled VHF amplifier triode with 6.3 V 190 mA heater, 15 mA/V transconductance and 7GM base.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 7GM               | BASE PINS            | 7             |
| NOMINAL HEATER      | 6.3 V / 190 mA    | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

7GM - TERMINAL PINOUT

| TERMINAL  | SECTION | ELEMENT              | STATUS    |
|-----------|---------|----------------------|-----------|
| PIN1 – G1 | A       | G1 – Control Grid    | CONNECTED |
| PIN2 – K  | A       | K – Cathode          | CONNECTED |
| PIN3 – H  | –       | H – Heater           | CONNECTED |
| PIN4 – H  | –       | H – Heater           | CONNECTED |
| PIN5 – P  | A       | P – Plate (Anode)    | CONNECTED |
| PIN6 – IS | A       | IS – Internal Screen | CONNECTED |
| PIN7 – K  | A       | K – Cathode          | CONNECTED |

SECTION RATINGS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| <b>SECTION1</b> Triode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |
| <b>PLATE RESISTANCE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5000 $\Omega$ |
| <b>TRANSCONDUCTANCE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.015 S       |
| <b>AMPLIFICATION FACTOR</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 75            |
| <b>MAXIMUM PLATE VOLTAGE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 200 V         |
| <b>MAXIMUM PLATE DISSIPATION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2.3 W         |
| <b>MAXIMUM CATHODE CURRENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 22 mA         |
| <p><i>Sylvania/RCA 6HK5 gain-controlled VHF triode. Heater 6.3 V 0.19 A, max plate 200 V, dissipation 2.3 W, cathode current 22 mA, grid negative limit 50 V, heater-cathode <math>\pm 100</math> V. Typical <math>V_a</math> 135 V <math>V_g</math> -1 V <math>I_a</math> 12.5 mA, <math>\mu</math> 75, <math>g_m</math> 0.015 A/V, <math>r_p</math> 5000 <math>\Omega</math>. Shielded <math>C_{gp}</math> 0.29 pF, input 4.4 pF, output 2.6 pF, <math>C_{hk}</math> 2.5 pF. 200 MHz input resistance 600 <math>\Omega</math>, capacitance 9 pF, noise figure 4.2 dB. 7GM base.</i></p> |               |

Frame-grid gain-controlled triode designed for VHF RF amplifier service.

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