

ELECTRONIC TUBE REFERENCE

2FH5

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

High-mu miniature triode used as an RF amplifier in VHF color and black-and-white television tuners.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7FP	BASE PINS	7
NOMINAL HEATER	2.35 V / 600 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7FP - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – K	A	K – Cathode	CONNECTED
PIN2 – G1	A	G1 – Control Grid	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

SECTION1 Triode	
PLATE RESISTANCE	5600 Ω
TRANSCONDUCTANCE	0.009 S
AMPLIFICATION FACTOR	50
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	2.2 W
MAXIMUM CATHODE CURRENT	22 mA
MAXIMUM HEATER-CATHODE VOLTAGE	100 V
WARM-UP TIME	11 s
<i>Published promoted fields populated from Maximum Ratings / Characteristics / Typical Operation headings.</i>	

High-mu miniature triode used as an RF amplifier in VHF color and black-and-white television tuners.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid To Plate Capacitance	0.52 pF	Maximum
Input Capacitance	3.2 pF	—
Output Capacitance	4 pF	WithShield



SOURCE OPERATING CONDITIONS

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	135 V	—
Grid voltage	-1 V	—
Plate current	11 mA	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	5600 Ohm	—
Transconductance	9000 uS	—
Amplification factor	50 ratio	—
Control-grid cutoff voltage	-5.5 V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Westinghouse Data Book

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

1965 WESTINGHOUSE DATA BOOK

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	2.35 V	—
Heater Current	600 mA	—
ControlledWarmupHeater	1 boolean	—
Heater Warmup Time	11 s	—
Plate Voltage	135 V	—
Grid Voltage	-1 V	—
Plate Current	11 mA	—
Plate Resistance	5600 ohm	—
Transconductance	9000 uS	—
Amplification Factor	50	—
GridCutoffBias	-5.5 V	—
Grid To Plate Capacitance	0.6 pF	—
Input Capacitance	3.2 pF	—
Output Capacitance	4 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterCathodeVoltageMaximum	100 V	—



1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4
Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID TO PLATE: G TO P (MAX.) (FOGEY) ->	0.52 pF	Capacitances GRID TO PLATE: G TO P (MAX.) (FOGEY) -> 0.52 -i 0.52 pf

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HEATER VOLTAGE	2.35 V	Maximum Ratings HEATER VOLTAGE 2.35 VOLTS
MAXIMUM PLATE VOLTAGE	150 V	Maximum Ratings MAXIMUM PLATE VOLTAGE 150 VOLTS
MAXIMUM GRID VOLTAGE (POSITIVE	0 V	Maximum Ratings MAXIMUM GRID VOLTAGE (POSITIVE 1 0 VOLT
MAXIMUM PLATE DISSIPATION	2.2 W	Maximum Ratings MAXIMUM PLATE DISSIPATION 2.2 WATTS
MAXIMUM DC CATHODE CURRENT	22 mA	Maximum Ratings MAXIMUM DC CATHODE CURRENT 22 MA.
n MAXIMUM GRID CIRCUIT RESISTANCE	0 Mohm	Maximum Ratings n MAXIMUM GRID CIRCUIT RESISTANCE 1 .0 MEGOHM
HEATER NEGATIVE WITH RESPECT TO CATHODE	100 V	Maximum Ratings HEATER NEGATIVE WITH RESPECT TO CATHODE 100 VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	100 V	Maximum Ratings HEATER POSITIVE WITH RESPECT TO CATHODE 100 VOLTS
HEATER WARM-UP TIME (APPROX.)*	11 s	Maximum Ratings HEATER WARM-UP TIME (APPROX.)* 11.0 SECONDS
HEATER VOLTAGE	2.35 V	Typical Operating Conditions HEATER VOLTAGE 2.35 VOLTS
PLATE VOLTAGE	135 V	Typical Operating Conditions PLATE VOLTAGE 135 VOLTS
GRID VOLTAGE	1 V	Typical Operating Conditions GRID VOLTAGE - 1.0 VOLT
PLATE RESISTANCE (APPROX.)	5600 ohm	Typical Operating Conditions PLATE RESISTANCE (APPROX.) 5600 OHMS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TRANSCONDUCTANCE	9000 MMHOS	Typical Operating Conditions TRANSCONDUCTANCE 9000 μ MHOS
PLATE CURRENT	11 mA	Typical Operating Conditions PLATE CURRENT 11 MA.
GRID VOLTAGE (A PP ROX.) FOR	5.5 V	Typical Operating Conditions GRID VOLTAGE (A PP ROX.) FOR 100 μ A PLATE CURRENT - 5.5 VOLTS



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 4 of 7

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

1971 RCA HB3 BINDER 4 OF 7

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	2.35 V	—
Heater current	600 mA	—
Heater warm-up time	11 s	—
Plate voltage	135 V	ClassA
Plate current	10 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	9000 μ S	ClassA
Amplification factor	45	ClassA
Plate resistance	5000 ohm	ClassA

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	VHF grounded-grid amplifier	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc) 2.35	6.3 V	Published in approved 6FH5 target entry; Section1
Heater Current	200 mA	Published in approved 6FH5 target entry; Section1
Plate Voltage	150 V	Published in approved 6FH5 target entry; Section1
Grid Voltage, Positive-bias value	0 V	Published in approved 6FH5 target entry; Section1
Cathode Current	22 mA	Published in approved 6FH5 target entry; Section1
Plate Dissipation	2.2 W	Published in approved 6FH5 target entry; Section1
Grid-Circuit Resistance, for cathode-bias operation	1 MΩ	Published in approved 6FH5 target entry; Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to Plate 0.52	0.52 pF	Published in approved 6FH5 target entry; Section1
Grid to Cathode, Heater, and Internal Shield . . 3.2	3.2 pF	Published in approved 6FH5 target entry; Section1
Plate to Cathode, Heater, and Internal Shield . 3.2	4 pF	Published in approved 6FH5 target entry; Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	135 V	Published in approved 6FH5 target entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid Voltage	1 V	Published in approved 6FH5 target entry; Section1
Plate Resistance (Approx.)	5600 Ω	Published in approved 6FH5 target entry; Section1
Transconductance	9000 μS	Published in approved 6FH5 target entry; Section1
Plate Current	11 mA	Published in approved 6FH5 target entry; Section1
Grid Voltage (Approx.) for plate current of 100 μA	-5.5 V	Published in approved 6FH5 target entry; Section1

TUBE TINKER

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