

ELECTRONIC TUBE REFERENCE

6FH5

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	6.3 V / 155 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	330 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	22 mA
<i>Published maximum ratings and characteristic values promoted where applicable; additional values retained in TUBE_SECTION_PARAMETER.</i>	

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



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage maximum	150 V	—
Typical plate voltage	135 V	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	5600 ohm	—
Amplification factor	52	—
Transconductance	11000 uS	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Grounded-cathode VHF RF amplifier	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate_voltage	135 V	ClassA
Grid_voltage	-1 V	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate_current	11 mA	ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance maximum	0.52 pF	—
Input capacitance	3.2 pF	—
Output capacitance	4 pF	—


SOURCE DATA APPENDIX

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
Plate voltage	135 V	ClassA
Plate current	11 mA	ClassA
Maximum plate voltage	330 V	—
Grid to plate – published value 1	0 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Grid to plate – published value 2	6 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Grid to plate – published value 3	0.6 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
PLATE VOLTAGE	150 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Positive-bias value	0 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
CATHODE CURRENT	22 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
PLATE DISSIPATION	2.2 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
respect to cathode	100 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	5600 ohm	ClassA
Transconductance	9000 uS	ClassA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	50	ClassA
Voltage (AC or DC) – published value 1	6.3 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Voltage (AC or DC) – published value 2	10 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
shield, and heater – published value 1	32	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
shield, and heater – published value 2	3.2	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
shield, and heater	32	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Voltage	135 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Grid Voltage	-1 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Resistance (Approx.)	5600 ohm	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Transconductance	9000	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Current	11 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
plate μ a = 100 – published value 1	100 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
plate μ a = 100 – published value 2	-5.5 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 1 -Cathode – published value 1	1	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 1 -Cathode – published value 2	5	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pin 2 -Grid	2	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 3 -Heater	3	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 4 -Heater – published value 1	4	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 4 -Heater – published value 2	7	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.



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
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 /iA	-5.5 V	Published in approved 6FH5 target entry; Section1

TUBE TINKER

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