

ELECTRONIC TUBE REFERENCE

26A6

Voltage - Pentode Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Seven-pin miniature remote-cutoff pentode designed for aircraft receivers powered from storage batteries. Its 26.5 V, 70 mA heater and high transconductance support variable-gain RF/IF amplification in airborne radio equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7BK	BASE PINS	7
NOMINAL HEATER	26.5 V / 70 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7BK - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – G1	A	G1 – Control Grid	CONNECTED
PIN2 – G3	A	G3 – Suppressor Grid	CONNECTED
PIN2 – IS	A	IS – Internal Screen	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – P	A	P – Plate (Anode)	CONNECTED
PIN6 – G2	A	G2 – Screen Grid	CONNECTED
PIN7 – K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	1000000 Ω
TRANSCONDUCTANCE	0.004 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	100 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM SCREEN DISSIPATION	0.4 W
<i>Published promoted values applied where semantically applicable; additional table values retained in section parameters.</i>	

The 26A6 is a 7-pin miniature remote-cutoff pentode with a 26.5 V, 70 mA heater. It was grouped with tubes intended for aircraft receivers powered from 12-cell storage batteries and emphasizes high transconductance.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	250 V	Published handbook rating
Maximum screen voltage	100 V	Published handbook rating
Plate voltage	250 V	ClassA
Screen voltage	100 V	ClassA
Control-grid bias	10.5 V	ClassA
Plate current	4 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	1000000 ohm	Published handbook characteristic
Transconductance	4000 μ S	Published handbook characteristic
Heater/filament voltage	26.5 V	Published heater/filament rating
Heater/filament current	70 mA	Published heater/filament rating

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	6 pF	Published capacitance column
Output capacitance	5 pF	Published capacitance column
Grid-to-plate capacitance	0.0035 pF	Published capacitance column

1960 RCA Industrial and Communications Types

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

1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen supply	100 V	—
Screen current	4 mA	—
Plate current	10.5 mA	—
Alternate screen voltage	26.5 V	—
Alternate plate current	1.7 mA	—
Grid circuit resistance	2 Mohm	—



SOURCE DATA APPENDIX

1971 RCA HB3 Binder 3 of 7

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

1971 RCA HB3 BINDER 3 OF 7

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Current	0.07	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 1 -Grid No.1 – published value 1	1	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 1 -Grid No.1 – published value 2	4	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pin 2 -Grid No. 3, – published value 1	2	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 2 -Grid No. 3, – published value 2	3	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 2 -Grid No. 3, – published value 3	5	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
internal Shield ~`	6	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 3 -Heater – published value 1	3	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 3 -Heater – published value 2	7	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Voltage – published value 1	26.5 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Voltage – published value 2	250 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Grid-No.2 Voltage – published value 1	26.5 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Grid-No.2 Voltage – published value 2	100 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
From a grid-No.1 resistor of	2 Mohm	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Resistance (Approx) – published value 1	0.25 Mohm	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Resistance (Approx) – published value 2	1 Mohm	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Transconductance – published value 1	2000	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance – published value 2	4000	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
transconductance of 40 μ mhos – published value 1	40 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
transconductance of 40 μ mhos – published value 2	25 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
transconductance of 20 μ mhos – published value 1	20 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
transconductance of 20 μ mhos – published value 2	8 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Current – published value 1	1.7 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Current – published value 2	10.5 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Grid-No.2 Current – published value 1	0.7 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Grid-No.2 Current – published value 2	4 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
PLATE $\sim$ Ib $\sim$ OR GRID-N-2 $\sim$ IC2 $\sim$ MILLIAMPERES	2 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
HEATER VOLTS=PLATE VOLTS=GRID-N4 2 VOLTS=26.5 – published value 1	2 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
HEATER VOLTS=PLATE VOLTS=GRID-N4 2 VOLTS=26.5 – published value 2	26.5 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
PL ATE(Ib) OR GRID -N°2 (I $\sim$ z) MILLIAMPERES	2 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
$\sim$: GRID-NI'2 VOLTS=100 – published value 1	2 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
~: GRID-NI'2 VOLTS=100 – published value 2	100 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to Plate	0.0035 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
PLATE VOLTAGE	250 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
GRID-No.2 (SCREEN) VOLTAGE	100 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
GRID-No.2 SUPPLY VOLTAGE	250 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
PLATE DISSIPATION	3 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Negative bias value	50 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.
Heater negative with respect to cathode	90 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Heater positive with respect to cathode	90 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.

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