

ELECTRONIC TUBE REFERENCE

8532

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Premium-quality UHF triode for high-frequency amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 400 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	4800 Ω
TRANSCONDUCTANCE	0.011 S
AMPLIFICATION FACTOR	52.5
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	20 mA
Alias/co-designation of 6J4WA;	

The RCA 8532 is a premium frame-grid UHF triode for cathode-drive amplification to 500 MHz under severe environmental conditions.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1964 RMA EIA

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

1964 RMA EIA

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	400 mA	—
Cathode-Plate Capacitance Maximum	0.2 pF	—
Input Capacitance	7.5 pF	CathodeDrive
Output Capacitance Maximum	5 pF	CathodeDrive
Plate Supply Voltage	130 V	ClassA
Plate Current	13.5 mA	ClassA
Plate Resistance	4800 ohm	ClassA
Transconductance	11000 uS	ClassA
Amplification Factor	52.5 ratio	ClassA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	150 V	—
Maximum Cathode Current	20 mA	—
Maximum Plate Dissipation	2.5 W	—
Maximum Operating Frequency	500 MHz	—

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 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage (AC or DC) – published value 1	6.3 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Voltage (AC or DC) – published value 2	0.3 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Current at heater volts = 6.3 – published value 1	6.3 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Current at heater volts = 6.3 – published value 2	0.4 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid and internal shield to plate	2.8 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 1 -Grid, Internal Shield	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 3-Heater	3	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 4-Heater	4	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Pin 7-Plate	7	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Supply Voltage	150 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Resistance (Approx)	4800 ohm	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	11000	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current	13.5 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid Voltage (Approx.) for plate $\mu_a = 60$ – published value 1	60 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Grid Voltage (Approx.) for plate $\mu_a = 60$ – published value 2	-15 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Voltage	150 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Negative-bias value	55 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Positive-bias value	0 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Cathode Current	20 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Dissipation	2.5 W	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
For grid-resistor-bias operation	0.25 Mohm	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Current – published value 1	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Current – published value 2	0.375	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater Current – published value 3	0.425	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Capacitances	2	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to plate – published value 1	3 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Cathode to plate – published value 2	0.2 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
to plate – published value 1	3 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
to plate – published value 2	3.3 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater to cathode – published value 1	3 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater to cathode – published value 2	1 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater to cathode – published value 3	4.5 pF	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
PT ate Current (1) – published value 1	1 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
PT ate Current (1) – published value 2	5 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
PT ate Current (1) – published value 3	9 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
PT ate Current (1) – published value 4	18 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (2) – published value 1	2	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (2) – published value 2	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Plate Current (2) – published value 3	6	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current (2) – published value 4	60	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance (1) – published value 1	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance (1) – published value 2	5	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance (1) – published value 3	8800	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance (1) – published value 4	13200	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Transconductance (2) for an	2	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Reverse Grid Current – published value 1	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Reverse Grid Current – published value 2	8	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Reverse Grid Current – published value 3	0	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Reverse Grid Current – published value 4	0.5	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 1	1 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 2	6.3 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 1	5 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 2	150 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
cathode-bypass capacitor (μf) = 1000	1000	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 1	6 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 2	150 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 3	15 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 1	7 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 2	5.7 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 1	8 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note – published value 2	175 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 9 – published value 1	9 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 9 – published value 2	100 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 10 – published value 1	10 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 10 – published value 2	100 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 11 – published value 1	11 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Note 11 – published value 2	300 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
under the following conditions; heater volts = 6.3, do plate	6.3 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
supply volts = 150, do grid volts = -1.5, grid resistor (meg – published value 1	150 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
supply volts = 150, do grid volts = -1.5, grid resistor (meg – published value 2	-1.5 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
ohms) = 0. 1, and do heater-cathode volts = 100 – published value 1	0 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
ohms) = 0. 1, and do heater-cathode volts = 100 – published value 2	1 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
ohms) = 0. 1, and do heater-cathode volts = 100 – published value 3	100 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Vibration Frequency	25	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
frequency of 25 cps and, with heater volts = 6.3, are sub – published value 1	25 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
frequency of 25 cps and, with heater volts = 6.3, are sub – published value 2	6.3 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
(I 1, Reverse Grid Current, and Heater-Cathode Leakage Current	1	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Vibration Frequency	40	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
with simple harmonic motion at a constant frequency of 40 cps	40	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
with the addition of a plate load resistor of 2000 ohms, are	2000 ohm	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Vibration-Frequency Range – published value 1	50	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Vibration–Frequency Range – published value 2	500	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater negative with respect to cathode	100 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Heater positive with respect to cathode	100 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
Cathode to plate	0.2 mA	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.
RMS Voltage across plate load resistor	150 V	Published datasheet value; multiple numbers on a source row represent separate limits or operating conditions.

TUBE TINKER

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