



ELECTRONIC TUBE REFERENCE

6524

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

BEAMPOWER-BEAMPOWER

Beam-power output tube intended for substantial audio-frequency or general power-amplifier service, combining high current capability with useful plate dissipation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 1.25 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.0045 S
AMPLIFICATION FACTOR	8.5
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	25 W
<i>Twin beam-power tube with two identical physical units; identical-section compression applied, so SectionCount=2 with one representative section row.</i>	

SECTION2 Beam Power	
TRANSCONDUCTANCE	0.0045 S
AMPLIFICATION FACTOR	8.5
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	25 W
<i>Second physical beam-power unit; RCA 6524/6850 twin-beam data, ratings per tube.</i>	

The RCA 6524 is a twin beam power tube for push-pull AF/RF amplification, modulation, oscillation, and frequency-tripler service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

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

1940 RCA

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Frequency	470 MHz	—
RFPowerOutput	56 W	UpTo100MHz



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1956 RCA Transmitting Tubes

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

1956 RCA TRANSMITTING TUBES

Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Full-Input Frequency	100 MHz	—
Maximum Reduced-Input Frequency	470 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage CCS	500 V	PushPull
Plate Voltage ICAS	600 V	PushPull



1971 RCA HB3 Binder 6 of 7

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

1971 RCA HB3 BINDER 6 OF 7
Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage – published value 1	6.3	Published datasheet value
Voltage – published value 2	10	Published datasheet value
Current	1.25 A	Published datasheet value
Transconductance~ ror do plate volts= 200,	200	Published datasheet value
do grid~Xo.2 volts= 200, and do plate ma. = 50 – published value 1	200 mA	Published datasheet value
do grid~Xo.2 volts= 200, and do plate ma. = 50 – published value 2	50 mA	Published datasheet value
do grid~Xo.2 volts= 200, and do plate ma. = 50 – published value 3	4.5 A	Published datasheet value
for do p{ate volts= 200, do grid~No.2	200	Published datasheet value
volts= 200, and do plate ma.= 50 – published value 1	200 mA	Published datasheet value
volts= 200, and do plate ma.= 50 – published value 2	50 mA	Published datasheet value
volts= 200, and do plate ma.= 50 – published value 3	8.5 mA	Published datasheet value
Grid No.1 to cathode 8 grid No.3 &	8	Published datasheet value
1 & 7), and heater – published value 1	1	Published datasheet value
1 & 7), and heater – published value 2	7	Published datasheet value
1 & 7), and heater – published value 3	7	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to cathode & grid No.3 6 in–	6	Published datasheet value
ternal shield, grid No.2 (pins 1	1	Published datasheet value
& 7), and heater – published value 1	7	Published datasheet value
& 7), and heater – published value 2	3.4	Published datasheet value
Pin 1 –Grid No.2 – published value 1	1	Published datasheet value
Pin 1 –Grid No.2 – published value 2	6	Published datasheet value
Pin 2 –Grid No.1 of	2	Published datasheet value
Unit No.2	7	Published datasheet value
Pin 3 –Heater	3	Published datasheet value
Pin 5 –Heater	5	Published datasheet value
DC Plate Voltage – published value 1	400	Published datasheet value
DC Plate Voltage – published value 2	500	Published datasheet value
DC Grid-No.2 Voltage• – published value 1	200	Published datasheet value
DC Grid-No.2 Voltage• – published value 2	200	Published datasheet value
From }ized-bias source – published value 1	-23	Published datasheet value
From }ized-bias source – published value 2	-26	Published datasheet value
No.i Voltage – published value 1	72	Published datasheet value
No.i Voltage – published value 2	70	Published datasheet value
(Plate to plate) – published value 1	7100 ohm	Published datasheet value
(Plate to plate) – published value 2	11100 ohm	Published datasheet value
DC Plate Voltage – published value 1	500	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Plate Voltage – published value 2	600	Published datasheet value
DC Grid-No.2 Voltage'• – published value 1	200	Published datasheet value
DC Grid-No.2 Voltage'• – published value 2	200	Published datasheet value
From }ized-bias source – published value 1	-25	Published datasheet value
From }ized-bias source – published value 2	-26	Published datasheet value
f Sub stri pt 2 indicates that grid–No.i current flows during some part of	2	Published datasheet value
No.1 Voltage – published value 1	76	Published datasheet value
No.1 Voltage – published value 2	76	Published datasheet value
(Plate to plate) – published value 1	8900 ohm	Published datasheet value
(Plate to plate) – published value 2	11400 ohm	Published datasheet value
DC Grid-No.2 Voltage (Approx.)+ – published value 1	200	Published datasheet value
DC Grid-No.2 Voltage (Approx.)+ – published value 2	200	Published datasheet value
DC Grid-No.1 Voltage*	1	Published datasheet value
grid resistor of – published value 1	6200 ohm	Published datasheet value
grid resistor of – published value 2	6200 ohm	Published datasheet value
with fixed bias of – published value 1	-45	Published datasheet value
with fixed bias of – published value 2	-45	Published datasheet value
DC Plate Current – published value 1	100 mA	Published datasheet value
DC Plate Current – published value 2	100 mA	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Grid-No.2 Current (Approx.) – published value 1	7 mA	Published datasheet value
DC Grid-No.2 Current (Approx.) – published value 2	7 mA	Published datasheet value
DC Grid-No.1 Current (Approx.) – published value 1	2.5 mA	Published datasheet value
DC Grid-No.1 Current (Approx.) – published value 2	2.5 mA	Published datasheet value
Power Output (Approx.)t – published value 1	31 W	Published datasheet value
Power Output (Approx.)t – published value 2	40 W	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to plate – published value 1	0 mA	Published datasheet value
Grid No.1 to plate – published value 2	11 mA	Published datasheet value
Bulb Temperature•(At hottest point)	210 mA	Published datasheet value
DC PLATE VOLTAGE – published value 1	500 mA	Published datasheet value
DC PLATE VOLTAGE – published value 2	600 mA	Published datasheet value
DC GRID-No.2 (SCREEN)~VOLTAGE~ – published value 1	300 mA	Published datasheet value
DC GRID-No.2 (SCREEN)~VOLTAGE~ – published value 2	300 mA	Published datasheet value
DC GRID-No.2 SUPPLY VOLTAGE – published value 1	400 mA	Published datasheet value
DC GRID-No.2 SUPPLY VOLTAGE – published value 2	400 mA	Published datasheet value
MAX.-SIGNAL DC PLATE CURRENT" – published value 1	150 mA	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MAX.-SIGNAL DC PLATE CURRENT" – published value 2	150 mA	Published datasheet value
MAX.-SIGNAL PLATE INPUT" – published value 1	70 mA	Published datasheet value
MAX.-SIGNAL PLATE INPUT" – published value 2	85 mA	Published datasheet value
MAX.-SIGNAL GRID-No.2 INPUT" – published value 1	3 mA	Published datasheet value
MAX.-SIGNAL GRID-No.2 INPUT" – published value 2	3 mA	Published datasheet value
PLATE DISSIPATION" – published value 1	20 mA	Published datasheet value
PLATE DISSIPATION" – published value 2	25 mA	Published datasheet value
With fixed bias	30 A	Published datasheet value
For max. plate voltage end mex. plate input above 100 Mc,	100 mA	Published datasheet value
DC PLATE VOLTAGE – published value 1	400 mA	Published datasheet value
DC PLATE VOLTAGE – published value 2	500 mA	Published datasheet value
VOLTAGE -200 max. -200 max – published value 1	-200 mA	Published datasheet value
VOLTAGE -200 max. -200 max – published value 2	-200 mA	Published datasheet value
DC PLATE CURRENT – published value 1	125 mA	Published datasheet value
DC PLATE CURRENT – published value 2	125 mA	Published datasheet value
DC GRID-No.1 CURRENT – published value 1	4 mA	Published datasheet value
DC GRID-No.1 CURRENT – published value 2	4 mA	Published datasheet value
PLATE INPUT – published value 1	45 mA	Published datasheet value
PLATE INPUT – published value 2	55 mA	Published datasheet value
GRID-No.2 INPUT – published value 1	2 mA	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
GRID-No.2 INPUT – published value 2	2 mA	Published datasheet value
PLATE DISSIPATION – published value 1	13.5 mA	Published datasheet value
PLATE DISSIPATION – published value 2	16.7 mA	Published datasheet value

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