

ELECTRONIC TUBE REFERENCE

5763

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Industrial VHF beam-power tube for low-power mobile transmitters, fixed-station drivers, oscillators, and frequency multipliers, providing useful Class-C RF output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9K	BASE PINS	8
NOMINAL HEATER	6.3 V / 750 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9K - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – P	A	P – Plate (Anode)	CONNECTED
PIN3 – G3	A	G3 – Suppressor Grid	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – H	–	H – Heater	CONNECTED
PIN6 – G2	A	G2 – Screen Grid	CONNECTED
PIN7 – K	A	K – Cathode	CONNECTED
PIN8 – G1	A	G1 – Control Grid	CONNECTED
PIN9 – G1	A	G1 – Control Grid	CONNECTED

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	30000 Ω
TRANSCONDUCTANCE	0.006 S
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	12 W
MAXIMUM SCREEN DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	65 mA
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
<i>Published promoted fields populated semantically; identical repeated sections compressed.</i>	

Industrial VHF beam-power tube for low-power mobile transmitters, fixed-station driver stages, oscillators and frequency multipliers. Extracted from the supplied RCA Receiving Tube Manual excerpt.



SOURCE OPERATING CONDITIONS

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	175 MHz	—

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	RFPower_Oscillator_FrequencyMultiplier text	—



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

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6 V	—
HeaterOrFilamentCurrent	150 mA	—



1958 Brimar Radio Valve No 7

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

1958 BRIMAR RADIO VALVE NO 7

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Frequency	175 MHz	Full ratings
Power Output	8 W	ClassC; OscillatorOrPowerAmplifier; 50MHz
Frequency Doubler Output	3.6 W	FrequencyMultiplier; 175MHz
Frequency Tripler Output	2.8 W	FrequencyMultiplier; 175MHz

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Voltage	250 V	ClassA
Anode Current	45 mA	ClassA
Screen Current	4.7 mA	ClassA



SOURCE DATA APPENDIX

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 · Beam Power

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	VHF RF amplifier / doubler / tripler	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube class	VHF beam-power tube	—



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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RFPowerOutput	8 W	ClassC
Plate Voltage	300 V	ClassC



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 3 of 4

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

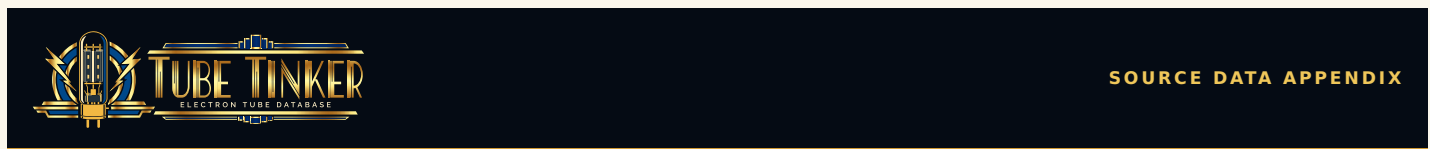
1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-1-to-plate capacitance maximum	0.3 pF	WholeTube
Input capacitance	9.5 pF	WholeTube
Output capacitance	4.5 pF	WholeTube
Transconductance	5100 μ S	TypicalOperation

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC plate voltage	350 V	ClassCTelegraphyICAS
Maximum screen voltage	250 V	ClassC
Maximum DC plate current	50 mA	ClassC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	13.5 W	ClassCTelegraphyICAS
Maximum screen input	2 W	ClassC
Plate voltage	350 V	ClassCUpTo30MHz
Screen voltage	250 V	ClassCUpTo30MHz
Plate current	48.5 mA	ClassCUpTo30MHz
Screen current	6.2 mA	ClassCUpTo30MHz
Driving power	0.1 W	ClassCUpTo30MHz
Useful power output	12 W	ClassCUpTo30MHz



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Voltage	350 V	VHF beam-power service
Plate Dissipation	13.5 W	VHF beam-power service
Screen Input	1.5 W	VHF beam-power service
Typical Plate Voltage	350 V	VHF beam-power service
Useful Power Output	12 W	VHF beam-power service

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	7000 μ S	VHF beam-power service
Mu Factor, Screen to Control Grid	16	VHF beam-power service
Grid-No.1 to Plate Capacitance	0.3 pF	VHF beam-power service
Input Capacitance	9.5 pF	VHF beam-power service
Output Capacitance	4.5 pF	VHF beam-power service

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 · Beam Power

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.3 pF	Max
Input capacitance	9.5 pF	—
Output capacitance	4.5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	50 mA	RFPower
Screen current	16 mA	RFPower ICAS
Useful power output	12 W	ClassC RFPower 30MHz ICAS
Useful power output	7 W	ClassC RFPower 50MHz
Frequency multiplier plate voltage	300 V	FrequencyMultiplier
Frequency doubler power output	2.1 W	FrequencyMultiplier
Frequency tripler power output	1.3 W	FrequencyMultiplier