

ELECTRONIC TUBE REFERENCE

828

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Radiation-cooled beam-power transmitting tube for RF power-amplifier service, also documented for Class-AB1 audio-frequency operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	10 V / 3.25 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.0045 S
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM SCREEN VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	100 W
MAXIMUM CATHODE CURRENT	180 mA
Published ratings and characteristics promoted from the supplied General Electric source.	

Radiation-cooled beam-power transmitting tube for RF power-amplifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 General Electric Transmitting Types

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

1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	10 V	—
HeaterOrFilamentCurrent	3.25 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
FrequencyForMaximumRatings	30 MHz	—



SOURCE OPERATING CONDITIONS

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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
Transconductance	2700 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	2000 V	—
Maximum Screen Voltage	750 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Dissipation	80 W	—
Maximum Cathode Current	180 mA	—
Full-Input Operating Frequency Maximum	30 MHz	—
Power Output	385 W	ClassAB1,AF,TwoTubes
Typical Plate Voltage	2000 V	Representative published point
Typical Plate Current	270 mA	Representative published point


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Amperex Industrial

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

1958 AMPEREX INDUSTRIAL

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	1500 V	RFPowerAmplifier;ClassC
Plate current	180 mA	RFPowerAmplifier;ClassC
Power output	200 W	RFPowerAmplifier;ClassC
Control-grid voltage	-100 V	RFPowerAmplifier;ClassC
Screen voltage	400 V	RFPowerAmplifier;ClassC
Maximum frequency at full input	30 MHz	RFPowerAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.07 pF	Section1
Input capacitance	12 pF	Section1
Output capacitance	14 pF	Section1


SOURCE DATA APPENDIX

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED
Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	1250 V	RFPowerAmplifier
Plate current	160 mA	RFPowerAmplifier
Power output	150 W	RFPowerAmplifier
Control-grid voltage	-95 V	RFPowerAmplifier
Grid current	15 mA	RFPowerAmplifier
Screen voltage	400 V	RFPowerAmplifier

TUBE TINKER

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and their source documents.

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