



ELECTRONIC TUBE REFERENCE

RE125C

Power - Beam (NOT sweep) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Directly heated 125-watt transmitting tetrode for push-pull audio and Class-C RF power-amplifier or oscillator operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	5 V / 6.6 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.0022 S
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM SCREEN VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	125 W
MAXIMUM SCREEN DISSIPATION	20 W
MAXIMUM GRID DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	225 mA
<i>Promoted ratings taken from printed Maximum Ratings blocks; source filename/content mismatch handled by printed designation.</i>	

Directly heated 125 W transmitting tetrode for AF push-pull and RF class-C power-amplifier or oscillator operation.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Tesla

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

195X TESLA

Section 1 · Beam Power

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-grid input capacitance maximum	12.7 pF	Published interelectrode capacitance
Plate output capacitance maximum	4.2 pF	Published interelectrode capacitance
Plate-to-control-grid capacitance maximum	0.1 pF	Published interelectrode capacitance



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tesla Tubes

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

1966 TESLA TUBES

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	5 V	—
Heater current	6.6 A	—
Maximum plate voltage	3000 V	—
Maximum screen-grid voltage	600 V	—
Maximum plate dissipation	125 W	—
Maximum screen-grid dissipation	20 W	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum control-grid dissipation	5 W	—
Maximum frequency	235 MHz	—
Plate voltage	1500 V	ClassAB1; PushPull; TwoTubes; Ua=1500 V
Plate voltage	2000 V	ClassAB1; PushPull; TwoTubes; Ua=2000 V
Plate voltage	2500 V	ClassAB1; PushPull; TwoTubes; Ua=2500 V
Screen voltage	600 V	ClassAB1; PushPull; TwoTubes; Ua=1500 V
Screen voltage	600 V	ClassAB1; PushPull; TwoTubes; Ua=2000 V
Screen voltage	600 V	ClassAB1; PushPull; TwoTubes; Ua=2500 V
Control-grid bias	-90 V	ClassAB1; PushPull; TwoTubes; Ua=1500 V
Control-grid bias	-94 V	ClassAB1; PushPull; TwoTubes; Ua=2000 V
Control-grid bias	-96 V	ClassAB1; PushPull; TwoTubes; Ua=2500 V
Zero-signal plate current	60 mA	ClassAB1; PushPull; TwoTubes; Ua=1500 V
Zero-signal plate current	50 mA	ClassAB1; PushPull; TwoTubes; Ua=2000 V
Zero-signal plate current	50 mA	ClassAB1; PushPull; TwoTubes; Ua=2500 V
Maximum-signal plate current	222 mA	ClassAB1; PushPull; TwoTubes; Ua=1500 V
Maximum-signal plate current	240 mA	ClassAB1; PushPull; TwoTubes; Ua=2000 V
Maximum-signal plate current	232 mA	ClassAB1; PushPull; TwoTubes; Ua=2500 V
Screen current	17 mA	ClassAB1; PushPull; TwoTubes; Ua=1500 V
Screen current	6.4 mA	ClassAB1; PushPull; TwoTubes; Ua=2000 V
Screen current	8.5 mA	ClassAB1; PushPull; TwoTubes; Ua=2500 V
Plate-to-plate load resistance	10 kohm	ClassAB1; PushPull; TwoTubes; Ua=1500 V
Plate-to-plate load resistance	13.4 kohm	ClassAB1; PushPull; TwoTubes; Ua=2000 V
Plate-to-plate load resistance	20.3 kohm	ClassAB1; PushPull; TwoTubes; Ua=2500 V
Grid drive voltage	64.3 V	ClassAB1; PushPull; TwoTubes; Ua=1500 V
Grid drive voltage	67 V	ClassAB1; PushPull; TwoTubes; Ua=2000 V
Grid drive voltage	68.5 V	ClassAB1; PushPull; TwoTubes; Ua=2500 V
Plate dissipation	87.5 W	ClassAB1; PushPull; TwoTubes; Ua=1500 V
Plate dissipation	125 W	ClassAB1; PushPull; TwoTubes; Ua=2000 V
Plate dissipation	125 W	ClassAB1; PushPull; TwoTubes; Ua=2500 V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power output	158 W	ClassAB1; PushPull; TwoTubes; Ua=1500 V
Power output	230 W	ClassAB1; PushPull; TwoTubes; Ua=2000 V
Power output	330 W	ClassAB1; PushPull; TwoTubes; Ua=2500 V
Distortion	5 %	ClassAB1; PushPull; TwoTubes; Ua=1500 V
Distortion	2 %	ClassAB1; PushPull; TwoTubes; Ua=2000 V
Distortion	2.6 %	ClassAB1; PushPull; TwoTubes; Ua=2500 V
Plate voltage	1500 V	ClassAB2; PushPull; TwoTubes; Ua=1500 V
Plate voltage	2000 V	ClassAB2; PushPull; TwoTubes; Ua=2000 V
Plate voltage	2500 V	ClassAB2; PushPull; TwoTubes; Ua=2500 V
Plate voltage	3000 V	ClassAB2; PushPull; TwoTubes; Ua=3000 V
Screen voltage	350 V	ClassAB2; PushPull; TwoTubes; Ua=1500 V
Screen voltage	350 V	ClassAB2; PushPull; TwoTubes; Ua=2000 V
Screen voltage	350 V	ClassAB2; PushPull; TwoTubes; Ua=2500 V
Screen voltage	350 V	ClassAB2; PushPull; TwoTubes; Ua=3000 V
Control-grid bias	-41 V	ClassAB2; PushPull; TwoTubes; Ua=1500 V
Control-grid bias	-45 V	ClassAB2; PushPull; TwoTubes; Ua=2000 V
Control-grid bias	-43 V	ClassAB2; PushPull; TwoTubes; Ua=2500 V
Control-grid bias	-51 V	ClassAB2; PushPull; TwoTubes; Ua=3000 V
Zero-signal plate current	87 mA	ClassAB2; PushPull; TwoTubes; Ua=1500 V
Zero-signal plate current	72 mA	ClassAB2; PushPull; TwoTubes; Ua=2000 V
Zero-signal plate current	93 mA	ClassAB2; PushPull; TwoTubes; Ua=2500 V
Zero-signal plate current	55 mA	ClassAB2; PushPull; TwoTubes; Ua=3000 V
Maximum-signal plate current	400 mA	ClassAB2; PushPull; TwoTubes; Ua=1500 V
Maximum-signal plate current	300 mA	ClassAB2; PushPull; TwoTubes; Ua=2000 V
Maximum-signal plate current	260 mA	ClassAB2; PushPull; TwoTubes; Ua=2500 V
Maximum-signal plate current	260 mA	ClassAB2; PushPull; TwoTubes; Ua=3000 V
Screen current	34 mA	ClassAB2; PushPull; TwoTubes; Ua=1500 V
Screen current	5 mA	ClassAB2; PushPull; TwoTubes; Ua=2000 V
Screen current	6 mA	ClassAB2; PushPull; TwoTubes; Ua=2500 V
Screen current	3.5 mA	ClassAB2; PushPull; TwoTubes; Ua=3000 V
Plate-to-plate load resistance	7.2 kohm	ClassAB2; PushPull; TwoTubes; Ua=1500 V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate-to-plate load resistance	13.6 kohm	ClassAB2; PushPull; TwoTubes; Ua=2000 V
Plate-to-plate load resistance	22.2 kohm	ClassAB2; PushPull; TwoTubes; Ua=2500 V
Plate-to-plate load resistance	27.7 kohm	ClassAB2; PushPull; TwoTubes; Ua=3000 V
Grid drive voltage	100 V	ClassAB2; PushPull; TwoTubes; Ua=1500 V
Grid drive voltage	75 V	ClassAB2; PushPull; TwoTubes; Ua=2000 V
Grid drive voltage	63.5 V	ClassAB2; PushPull; TwoTubes; Ua=2500 V
Grid drive voltage	70.8 V	ClassAB2; PushPull; TwoTubes; Ua=3000 V
Plate dissipation	125 W	ClassAB2; PushPull; TwoTubes; Ua=1500 V
Plate dissipation	125 W	ClassAB2; PushPull; TwoTubes; Ua=2000 V
Plate dissipation	125 W	ClassAB2; PushPull; TwoTubes; Ua=2500 V
Plate dissipation	125 W	ClassAB2; PushPull; TwoTubes; Ua=3000 V
Power output	350 W	ClassAB2; PushPull; TwoTubes; Ua=1500 V
Power output	350 W	ClassAB2; PushPull; TwoTubes; Ua=2000 V
Power output	400 W	ClassAB2; PushPull; TwoTubes; Ua=2500 V
Power output	520 W	ClassAB2; PushPull; TwoTubes; Ua=3000 V
Distortion	2.5 %	ClassAB2; PushPull; TwoTubes; Ua=1500 V
Distortion	1 %	ClassAB2; PushPull; TwoTubes; Ua=2000 V
Distortion	2.2 %	ClassAB2; PushPull; TwoTubes; Ua=2500 V
Distortion	1.8 %	ClassAB2; PushPull; TwoTubes; Ua=3000 V
Plate voltage	2000 V	ClassC; OneTube; TelegraphyOrFMTelephony; f<=120 MHz; Ua=2000 V
Plate voltage	2500 V	ClassC; OneTube; TelegraphyOrFMTelephony; f<=120 MHz; Ua=2500 V
Plate voltage	3000 V	ClassC; OneTube; TelegraphyOrFMTelephony; f<=120 MHz; Ua=3000 V

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-grid to cathode capacitance	12.7 pF	Upper limit
Anode capacitance	4.2 pF	Upper limit
Anode to control-grid capacitance	0.1 pF	Upper limit

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	2200 μ S	Minimum; $I_a=50$ mA
Plate voltage	1250 V	—
Screen voltage	350 V	—
Control-grid voltage	-24 V	—
Plate current	100 mA	—
Screen current	8 mA	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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