



ELECTRONIC TUBE REFERENCE

RE1000F

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Directly heated one-kilowatt transmitting tetrode for RF power applications, using forced-air cooling with a specialized glass cooling bell.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	7.5 V / 21.3 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.0052 S
MAXIMUM PLATE VOLTAGE	6000 V
MAXIMUM SCREEN VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	1000 W
MAXIMUM SCREEN DISSIPATION	110 W
MAXIMUM GRID DISSIPATION	25 W
<i>Promoted ratings taken from printed Maximum Ratings blocks; source filename/content mismatch handled by printed designation.</i>	

Directly heated 1 kW transmitting tetrode for RF power applications, with forced-air cooling and a special glass cooling bell.



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	26 pF	Published interelectrode capacitance
Plate output capacitance	10 pF	Published interelectrode capacitance
Plate-to-control-grid capacitance	0.8 pF	Published interelectrode capacitance

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	150 MHz	Published maximum/rated frequency
Heater data	7.5 V; 25-31 A	Published heater voltage/current range or limit



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	7.5 V	—
Maximum plate voltage	6000 V	—
Maximum screen-grid voltage	1000 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	1000 W	—
Maximum screen-grid dissipation	110 W	—
Maximum control-grid dissipation	25 W	—
Maximum frequency	150 MHz	—
Heater current	25 A–31 A	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-grid capacitance	26 pF	—
Anode capacitance	10 pF	—
Anode to control-grid capacitance	0.8 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	5200 μ S	—
Screen-to-control-grid voltage ratio	6.1	—

TUBE TINKER

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

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