



ELECTRONIC TUBE REFERENCE

RE025XA

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Forced-air-cooled 250-watt coaxial power-beam transmitting tetrode designed for RF and VHF service, using a gold-plated molybdenum grid structure.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.012 S
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM SCREEN VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	250 W
MAXIMUM SCREEN DISSIPATION	12 W
MAXIMUM GRID DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	250 mA
<i>Promoted ratings taken from printed Maximum Ratings blocks; source filename/content mismatch handled by printed designation.</i>	

Indirectly heated 250 W coaxial power-beam transmitting tetrode for RF/VHF service, using a gold-plated molybdenum grid structure and forced-air cooling.



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	16 pF	Published interelectrode capacitance
Plate output capacitance	4.5 pF	Published interelectrode capacitance

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	500 MHz	Published maximum/rated frequency
Heater data	6 V; 2.3-2.9 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	6 V	—
Maximum plate voltage	2000 V	—
Maximum screen-grid voltage	400 V	—
Maximum plate dissipation	250 W	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum screen-grid dissipation	12 W	—
Maximum control-grid dissipation	2 W	—
Maximum frequency	500 MHz	—
Heater current	2.3 A–2.9 A	—
Heater warm-up time	60 s	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-grid to cathode capacitance	16 pF	—
Anode capacitance	4.5 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	12000 μ S	Minimum; $U_a=500$ V; $U_{g2}=250$ V; $I_a=200$ mA
Screen-to-control-grid voltage ratio	5	—

TUBE TINKER

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

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