

ELECTRONIC TUBE REFERENCE

ZE025XS

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Forced-air Tesla coaxial beam tetrode for RF amplification, modulation, and oscillator service to approximately 400 MHz, combining 250 W plate dissipation with very low feedback capacitance.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	12.6 V / 1.75 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.024 S
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM SCREEN VOLTAGE	350 V
MAXIMUM PLATE DISSIPATION	250 W
MAXIMUM SCREEN DISSIPATION	18 W
MAXIMUM GRID DISSIPATION	2 W
Maximum ratings: anode 2000 V (f < 300 MHz), anode dissipation 250 W, anode current 500 mA, screen 350 V/18 W, control-grid voltage magnitude 250 V, control-grid dissipation 2 W; maximum frequency 400 MHz.	

Coaxial power beam tetrode with indirectly heated cathode and 250 W anode dissipation for RF power amplification, modulation and oscillator service up to 400 MHz.



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	12.6 V	Nominal
HeaterCurrentNominal	1.75 A	Nominal
Maximum Plate Voltage	2000 V	—
Maximum Screen Voltage	350 V	—
Maximum Plate Dissipation	250 W	—
Maximum Frequency	400 MHz	—



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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Voltage	500 V	Characteristic data
Screen Grid Voltage	250 V	Characteristic data
Anode Current	400 mA	Characteristic data
Transconductance	24000 μ S	Characteristic data
Ig2/Ig1 Ratio	5	Characteristic data; printed ratio label

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control Grid Capacitance (Cg1)	30 pF	Interelectrode capacitance
Anode Capacitance (Ca)	8 pF	Interelectrode capacitance
Anode-to-Control-Grid Capacitance (Ca/g1)	0.06 pF	Interelectrode capacitance

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode Current	500 mA	—
Maximum Control Grid Voltage Magnitude	250 V	—
Maximum Heater-Cathode Voltage	150 V	—
Maximum Frequency	400 MHz	—
Maximum Glass-to-Metal Seal Temperature	175 degC	—
Maximum Anode Cooling-Fin Temperature	250 degC	—
Weight	150 g	—

COOLING		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling Air Flow	0.1 m3/min	At full anode dissipation; ambient +20 C
Cooling Air Pressure Difference	6.5 mmH2O	Incoming-to-outgoing air pressure difference

TUBE TINKER

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