



ELECTRONIC TUBE REFERENCE

RE041XL

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Forced-air-cooled 500-watt coaxial transmitting tetrode for high-frequency and VHF power service at frequencies to approximately 250 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 7.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.028 S
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM SCREEN VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	500 W
MAXIMUM SCREEN DISSIPATION	20 W
MAXIMUM GRID DISSIPATION	5 W
<i>Promoted ratings taken from printed Maximum Ratings blocks; source filename/content mismatch handled by printed designation.</i>	

Indirectly heated 500 W coaxial transmitting tetrode for high-frequency/VHF power service up to 250 MHz, with 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	68 pF	Published interelectrode capacitance
Plate output capacitance	8.5 pF	Published interelectrode capacitance
Plate-to-control-grid capacitance	0.12 pF	Published interelectrode capacitance

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	250 MHz	Published maximum/rated frequency
Heater data	12.6 V; 3.3-4 A	Published heater voltage/current range or limit



SOURCE OPERATING CONDITIONS

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	12.6 V	—
Maximum plate voltage	4000 V	—
Maximum screen-grid voltage	600 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate dissipation	500 W	—
Maximum screen-grid dissipation	20 W	—
Maximum control-grid dissipation	5 W	—
Maximum frequency	250 MHz	—
Heater current	3.3 A–4 A	—
Heater warm-up time	60 s	Minimum

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-grid capacitance	68 pF	—
Anode capacitance	8.5 pF	—
Anode to control-grid capacitance	0.12 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	28000 μ S	—
Screen-to-control-grid voltage ratio	19	—
Amplification factor A	25	—
Characteristic frequency	250 MHz	—
Secondary frequency	8 MHz	—