



ELECTRONIC TUBE REFERENCE

RE5XM

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Forced-air-cooled ceramic five-kilowatt beam transmitting tetrode designed for very-high-frequency and UHF service to approximately 900 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 38 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.04 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM SCREEN VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	5000 W
MAXIMUM SCREEN DISSIPATION	60 W
MAXIMUM GRID DISSIPATION	30 W
MAXIMUM CATHODE CURRENT	1 A
<i>Semantically matched promoted fields only.</i>	

Indirectly heated ceramic 5 kW beam transmitting tetrode for very-high-frequency/UHF service, rated to 900 MHz and cooled by forced air.



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 to cathode capacitance	36 pF	Published interelectrode capacitance
Plate-to-cathode capacitance	10 pF	Published interelectrode capacitance

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	900 MHz	Published maximum/rated frequency
Heater data	12.6 V; heater current <38 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
Uf	12.6 V	—
If	38 A	—
Ua max.	8000 V	—
Published value	1 a	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
I _a max.	1500 mA	—
W _a max.	5 kW	—
U _{g2} max.	600 V	—
W _{g2} max.	60 W	—
W _{g1} max.	30 W	—
f max.	900 Mc/s	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
C _{gt/k}	36 pF	—
C _{alk}	10 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U _a	8000 V	—
U _{g2}	600 V	—
Published value	1 a	—
I _a	1300 mA	—
I _{g2}	104–130 mA	—
S	40 mA/V	—

TUBE TINKER

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