

Directly heated 65-watt beam transmitting tetrode for audio or RF power amplification, oscillator, and frequency-multiplier service through approximately 260 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	6 V / 3.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.004 S
AMPLIFICATION FACTOR	5
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM SCREEN VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	65 W
MAXIMUM SCREEN DISSIPATION	10 W
MAXIMUM GRID DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	1 A
Semantically matched promoted fields only.	

Directly heated 65 W beam transmitting tetrode for AF or RF power amplification, oscillator and frequency-multiplier service up to 260 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

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-grid input capacitance	7.6 pF	Published interelectrode capacitance
Plate output capacitance	3.2 pF	Published interelectrode capacitance
Plate-to-control-grid capacitance maximum	0.4 pF	Published interelectrode capacitance

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	260 MHz	Published maximum/rated frequency



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	6 V	—
If	3.5 A	—
3KCIJJIYATAIJH0HHbIE ,IIAHHME Z) Ua max.	3000 V	—
Published value	1 a	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ia max.	150 mA	—
Wa max.	65 W	—
Ug2 max.	600 V	—
Wg2 max.	10 W	—
–Ugh max.	500 V	—
yxaxo CIIeI~Hanbx0, T0 t HHM cnpaseA- Ua 600 1000 1500	1800 V	—
JIHBbT Ana 2 .IIaMn) Ug2 250 250 250	250 V	—
RE	65 A	—
Ug1') –30 –30 –35 –	35 V	—
Iac, 60 60 60	50 mA	—
Ia 300 300 250	220 mA	—
Ig20 0 0 0	0 mA	—
Ig2 60 45 30	25 mA	—
Ug1 ef') 85.6 75 71.5	64.3 V	—
P, sP 6.2 5 3.2	2.2 W	—
Wa ') 45 65 63	63 W	—
Po 90 170 250	270 W	—
3KCIJIYATAUHOHHbIE AHHbIE 2) Ua max.	3000 V	—
–Ug1 max.	500 V	—
Ua 600 1000 1500 2000	3000 V	—
Ug2 250 250 250 250	250 V	—
Ug1 –50 –70 –75 –80 –	90 V	—
Ia 140 150 150 150	115 mA	—
Ig2 40 40 35 30	20 mA	—
Ig1 13 15 14 12	10 mA	—
Ug1 of 103 121.7 128.6 125	121.7 V	—
P1 Sp 1.9 2.5 2.5 2.1	1.7 W	—
Pa 84 150 225 300	345 W	—
Wa 30 45 55 65	65 W	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Wg2 10 10 9 8	5 W	—
P0 54 105 170 235	280 W	—
3KCHJIYATA1U40HHbIE ZjAHHbIE Ua max.	3000 V	—
Ia max.	150 mA	—
Ug2 max.	400 V	—
nn Bbl Ana 1 naMnbl): Ua 600 1000 1500 2000	2500 V	—
Ugh -100 -110 -125 -125 -	150 V	—
la 177 120 120 120	108 mA	—
Ig2 40 40 35 33	16 mA	—
Igi II 12 12 12	8 mA	—
Ugh of 135.7 150 160.6 160.6	167.8 V	—
P) 2.1 2.5 2.7 2.6	1.9 W	—
Pa 70 120 180 240	270 W	—
W a 20 25 35 40	45 W	—
Wg2 10 10 9 8	4 W	—
W gl I 1.2 1.2 1.1	0.7 W	—
Po 50 95 145 200	225 W	—
Ug2 nfsp 175 175 175 175	175 V	—
3KCHJIYATAL!H0HHbIE)1 AHHbIE Ua max.	2500 V	—
la max.	120 mA	—
Wa max.	45 W	—
Wg1 max.	5 W	—
(aaHHbte cnpaseunnBbl ung 1 IlaMnbl): Ua 1500 2000	2500 V	—
Ug2 300 400	500 V	—
Ugh ') -50 -75 -	100 V	—
lao 33 25	20 mA	—
la 200 270	230 mA	—
Igbo 0 0	0 mA	—
182') 35 50	35 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Igo 13 17	6 mA	—
Ugh of 135.7 164.3	214.2 V	—
P1 2.4 4.6	1.8 W	—
Wa ') 105 190	225 W	—
Wa 60 65	65 W	—
Po 150 300	325 W	—
RE0	5 A	—
3KCHJIYATAUHOHHbIE MHHbIE Ua max.	3000 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cgs	7.6 pF	—
Ca	3.2 pF	—
Published value	0.1 pF	—
RE	65 A	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ua	1000 V	—
Ug2	250 V	—
Ugl —	25 V	—
Published value	1 a	—
la	60 mA	—
Ig2	3 mA	—
5	4 mA/V	—
la=/Ugh	-85 V	—
la=/Ugh-85V/	1 mA	—
yxaxo CneL HaJIbHo, T0 Aaxxb[e cnpaseu- Ua 1000 1500	1750 V	—
JIHBbI Ana 2 naMII): Ug2 500 500	500 V	—
UgI') -85 -85 —	90 V	—
lac 30 30	20 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ia 170 180	170 mA	—
Ig20 0 0	0 mA	—
Ig2 24 14	17 mA	—
Ugl ef') 60.5 60.5	64.3 V	—
PI 0 0	0 W	—
Wa') 45 63	62 W	—
Po 80 145	175 W	—

TUBE TINKER

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