



ELECTRONIC TUBE REFERENCE

RE400C

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Directly heated 400-watt beam transmitting tetrode intended mainly for RF oscillator, frequency-multiplier, and power-amplifier service with forced-air cooling.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	5 V / 13.7 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
TRANSCONDUCTANCE	0.0045 S
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM SCREEN VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	400 W
MAXIMUM SCREEN DISSIPATION	35 W
MAXIMUM GRID DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	1 A
<i>Semantically matched promoted fields only.</i>	

Directly heated 400 W beam transmitting tetrode intended mainly for RF oscillator, frequency-multiplier and power-amplifier service, 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	14 pF	Published interelectrode capacitance
Plate output capacitance	9 pF	Published interelectrode capacitance
Plate-to-control-grid capacitance	0.15 pF	Published interelectrode capacitance

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency	110 MHz	Published maximum/rated frequency
Heater data	5 V; 12.5-14.5 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
eresx no napannenbxof cxeMe. Uf	5 V	—
If	12.5 A–15.5 A	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
3KCIJJIYATAIJIIIOHHbIE TAHHbIE (fmax =	110 Mc/s	fmax = 110 Mc/s
(fmax = 110 Mru) Ua max.	4000 V	—
Published value	1 a	—
Ia max.	350 mA	—
Wa max.	400 W	—
Ug2 max.	600 V	—
Wg2 max.	35 W	—
Wg1 max.	10 W	—
H0 OTBCYaTF, npHMepHO 12 BT.	12 W	—
Hag M0~ynxuxa, xenpepaiaxaa pa6opa, ration, fmax =	75 Mc/S	—
fmax = 75 Mru: Ua 2000 2500	3000 V	—
Ug2 500 500	500 V	—
–Ug1 220 220	220 V	—
Ia 275 275	275 mA	—
Ig2 30 28	26 mA	—
Ig1 12 12	12 mA	—
Wg2 15 14	13 W	—
Wg1 1.1 1.1	1.1 W	—
Ug1 of 290 290	290 V	—
P1 3.5 3.5	3.5 W	—
Pa 550 688	825 W	—
Wa 170 178	195 W	—
Po 380 510	630 W	—
Ug2 sp 350 350	350 V	—
3KCHJIYATAUHOHHbIE AAHHbIE (fmax =	75 Mc/s	fmax = 75 Mc/s
(fmax = 75 Mru) Ua max.	3200 V	—
Ia max.	275 mA	—
Wa max.	270 W	—
–U g1 max.	500 V	—
GRENZWERTE: (fmax =	110 MHz	fmax = 110 MHz

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
fiir F =	75 MHz	—
etwa	12 W	—
fmax =	75 MHz	—
GRENZWERTE (fmax =	75 MHz	fmax = 75 MHz
HaB Mo]IyJIBuHB, npepbienrax pa6oTa, ration, fmax =	30 Mc/s	—
fmax = 30 Mri;: Ua 2000 2500 3000	3650 V	—
Ug2 500 500 500	500 V	—
–Ug1 220 220 220	225 V	—
la 275 275 275	275 mA	—
Ig2 30 28 26	23 mA	—
lg1 12 12 12	13 mA	—
Wg2 IS 14 13	12 W	—
Wg1 1.1 I.I 1.1	1.2 W	—
0g1 of 290 290 290	315 V	—
P1 3.5 3.5 3.5	4 W	—
Pa 550 688 825	1000 W	—
Wa 170 178 195	235 W	—
P0 380 510 630	765 W	—
Ug2 sp 350 350 350	350 V	—
IIPE,AEJIbH0 ,AOIIYCTHMbIE MAXIMUM RATINGS: (fmax =	30 Mc/s	fmax = 30 Mc/s
3KCHJIYATALIH0HHbIE JIAHHBIE Ua max.	4000 V	—
(fmax = 30 Mri;)	1 a	—
(fmax = 30 Mri;) la max.	275 mA	—
–Ug1 max.	500 V	—
Wg1 max.	10 W	—
CHOC0B 0XJ	1 A	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
C51	11 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ca	9 pF	—
Ca/gf	0.15 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ua	2000 V	—
Ug2	450 V	—
Ugf —	48 V	—
Published value	1 a	—
Ia	200 mA	—
S	4.5 mA/V	—
Ie	2.5 A	—
pe)KHM Al HJIM LIM Tenec)oHHaIM pex(HM: f max 75 75	75 Mc/s	—
Ua 2500 3000	4000 V	—
Ug2 500 500	500 V	—
—Ugf 200 220	220 V	—
Ia 350 350	350 mA	—
Ig2 46 46	40 mA	—
Igl 18 19	18 mA	—
Wg2 23 23	20 W	—
W gl 1.8 1.9	1.8 W	—
Ugf sp 300 320	320 V	—
P1 1 5.4 6.1	5.8 W	—
Pa 875 1050	1400 W	—
W a 235 250	300 W	—
Po 640 800 1	100 W	—
pex<HM Al x.nH 4M Tene4)ommlM pex<HM, f max 110	110 Mc/s	—
2 naMnbr: Ua 3500	4000 V	—
Ug2 500	500 V	—
—Ugh 170	170 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
I _a 500	540 mA	—
I _{g2} 34	31 mA	—
I _{g1} 20	20 mA	—
PI 20	20 W	—
Pa 1300	1600 W	—
Po 1160	1440 W	—

TUBE TINKER

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and their source documents.

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