



ELECTRONIC TUBE REFERENCE

QE08200

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

High-power beam tetrode designed for AM, SSB, and FM transmitter amplifier, oscillator, frequency-multiplier, and modulator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	6.3 V / 3.9 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
TRANSCONDUCTANCE	0.009 S
AMPLIFICATION FACTOR	5.7
MAXIMUM PLATE VOLTAGE	825 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	100 W
MAXIMUM SCREEN DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	400 mA
High-power beam tetrode for AM, SSB and FM transmitter amplifier, oscillator, multiplier and modulator service.	

High-power beam tetrode for AM, SSB and FM transmitter amplifier, oscillator, multiplier and modulator service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V4

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1963 PHILIPS ELECTRON TUBES HANDBOOK V4

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heizung : indirekt If	3.9 A	Heizung : indirekt If = 3.9A

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Capacitances Ca	12.7 pF	Capacitances Capacitances Ca = 12.7 pF
Kapazitäten Cgi	30 pF	Capacitances Kapazitäten Cgi = 30 pF
Cagi <	0.9 pF	Capacitances Cagi < 0.9 pF

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Caracteristiques types Vg p	250 V	Typical characteristics Caracteristiques types Vg p = 250V
Plate current	100 mA	Typical characteristics Ia = 100 mA
Transconductance	9 mA/V	Typical characteristics S = 9 mA/V
Temperature du scellement de l'anode max	220 °C	Cooling Temperature du scellement de l'anode max. 220 °C
Temperature des broches max	180 °C	Cooling Temperature des broches max. 180 °C
Temperature de l'ampoule max	300 °C	Cooling Temperature de l'ampoule max. 300 °C
Plate voltage	825 V	Maximum ratings Va = max. 825 V
+ia = max	300 W	Maximum ratings +ia = max. 300 W
Na = max	100 W	Maximum ratings Na = max. 100 W
Plate current	400 mA	Maximum ratings Ia = max. 400 mA
Screen-grid voltage	300 V	Maximum ratings Vg2 = max. 300 V
Ng	12 W	Maximum ratings Ng2 = max. 12 W

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Vg = max	150 V	Maximum ratings -Vg = max. 150 V
Igi = max	30 mA	Maximum ratings Igi = max. 30 mA
Vkf = max	125 V	Maximum ratings Vkf = max. 125 V
Plate voltage	750 V	Maximum ratings Va = 750 V
Vg	250 V	Maximum ratings Vg2 250 V
Plate current	385 mA	Maximum ratings Ia = 385 mA
I	20 mA	Maximum ratings I82 = 20 mA
Igo	7 mA	Maximum ratings Igo = 7 mA
Vgip	120 V	Maximum ratings Vgip = 120 V
Wia	285 W	Maximum ratings Wia = 285 W
Wigs	1 W	Maximum ratings Wigs 1.0 W
W	5 W	Maximum ratings W82 = 5 W
Wa	85 W	Maximum ratings Wa = 85 W
Power output	200 W	Maximum ratings Wo = 200 W
Vgz = max	300 V	Maximum ratings Vgz = max. 300 V
f	30 MHz	Maximum ratings f = 30 Mc/s - Wg2 = max. 10 W
f	10 W	Maximum ratings f = 30 Mc/s - Wg2 = max. 10 W
Control-grid voltage	650 V	Maximum ratings Va = max. 650 V -Vg1 = max. 150 V
Control-grid voltage	150 V	Maximum ratings Va = max. 650 V -Vg1 = max. 150 V
Wia = max	200 W	Maximum ratings Wia = max. 200 W Igi = max. 30 mA
Wia = max	30 mA	Maximum ratings Wia = max. 200 W Igi = max. 30 mA
Wa = max	67 V	Maximum ratings Wa = max. 67 V1 Rg1 = max. 25 kO
Plate current	350 mA	Maximum ratings Ia = max. 350 mA Vkf = max. 125 V
Plate current	125 V	Maximum ratings Ia = max. 350 mA Vkf = max. 125 V
f	30 MHz	Maximum ratings f = 30 Mc/s
Plate voltage	600 v	Maximum ratings Va = 600v

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen-grid voltage	250 V	Maximum ratings $V_{g2} = 250V$
Control-grid voltage	-100 V	Maximum ratings $V_{g1} \sim -100 V$
Plate current	300 mA	Maximum ratings $I_a = 300 mA$
Screen-grid current	20 mA	Maximum ratings $I_{g2} = 20 mA$
Igo	4 mA	Maximum ratings $I_{go} = 4 mA$
$V_g \sim p$	110 V	Maximum ratings $V_g \sim p = 110 V$
is	180 W	Maximum ratings $i_s = 180 W$
Wig?	4 W	Maximum ratings $W_{ig?} = 0.4 W$
Wgz	5 W	Maximum ratings $W_{gz} = 5 W$
Wa	50 V	Maximum ratings $W_a = 50V1$
Power output	0 W	Maximum ratings $W_o = 130 W$
vg	220 V	Maximum ratings $v_{g2p} 220 V$ ')
Grenzdaten $I_a = \max$	400 mA	Maximum ratings Grenzdaten $I_a = \max. 400 mA$
f	350 V	Maximum ratings $f = 30 Pc/s$ $V_{g2} = \max. 350 V$
Plate voltage	825 V	Maximum ratings $V_a = \max. 825 V$ $W_{g2} = \max. 12 W$
Plate voltage	12 W	Maximum ratings $V_a = \max. 825 V$ $W_{g2} = \max. 12 W$
$W_a = \max$	2 V	Maximum ratings $W_a = \max. 100 2 V_{kf} = \max. 125 V$
$W_a = \max$	125 V	Maximum ratings $W_a = \max. 100 2 V_{kf} = \max. 125 V$
Die HF-Spannung	1 s	Maximum ratings Die HF-Spannung 1st mittels zweier sinusförmigen NP-
Screen-grid voltage	310 V	Maximum ratings $V_{g2} = 310 V$
za	270 mA	Maximum ratings $z_a = 130 270 mA$
$I_{gz} = <$	26 mA	Maximum ratings $I_{gz} = < 26 mA$
Igi	0 mA	Maximum ratings $I_{gi} = 0 0 mA$
Wia	200 W	Maximum ratings $W_{ia} = 98 200 W$
WO	220 W	Maximum ratings $W_o = 220 W 3)$
Published electrical value	130 mA	Maximum ratings 1) To be adjusted so that $I_a = 130 mA$ at $V_{gip} = 0$

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
A regler jusqu'a ce que Ia	130 mA	Maximum ratings A regler jusqu'a ce que Ia = 130 mA a Vgip = 0
Einzustellen bis Ia	130 mA	Maximum ratings Einzustellen bis Ia = 130 mA wenn Vgip = 0
Wa = max	100 a	Maximum ratings Wa = max. 100 a
Ia = max	400 mA	Maximum ratings Ia = max. 400 mA
Vgp = max	300 V	Maximum ratings Vgp = max. 300 V
Vgt = max	150 V	Maximum ratings -Vgt = max. 150 V
Igt = max	30 mA	Maximum ratings Igt = max. 30 mA
Vgf = max	125 V	Maximum ratings Vgf = max. 125 V
Plate voltage	600 V	Maximum ratings Va = 750 600 V
Vgz	250 V	Maximum ratings Vgz = 250 250 V
Vgf	-45 V	Maximum ratings Vgf = -45 -45 V
Vgtgtp	105 V	Maximum ratings Vgtgtp 110 ~0 X 105 V
Ia	235 mA	Maximum ratings Ia 2x45 2x280 2x25 2x235 mA
Published electrical value	24 mA	Maximum ratings 152 0 2x40 2x0.5 2x24 mA



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1999 PHILIPS E-Z

Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.3 V	—
Heater/filament current	3.9 A	—
Transconductance	9000 uS	—
Screen-grid amplification factor	5.7	—
Typical plate voltage	750 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical screen-grid voltage	250 V	—
Typical plate current	100 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate/anode voltage	825 V	—
Maximum screen-grid voltage	350 V	—
Maximum plate/anode dissipation	100 W	—
Maximum screen-grid dissipation	12 W	—
Operating plate voltage	750 V	ClassC;Telegraphy;30MHz
RF output power	200 W	ClassC;Telegraphy;30MHz
Operating plate voltage	600 V	ClassC;PlateScreenModulation;30MHz
RF output power	130 W	ClassC;PlateScreenModulation;30MHz

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate/anode capacitance	12.7 pF	—
Control-grid capacitance	30 pF	—
Plate-grid capacitance	0.5 pF	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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