



ELECTRONIC TUBE REFERENCE

YL1071

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TETRODE-TETRODE

Higher-heater-voltage member of the YL1070 family, retaining two matched tetrode sections for linear single-sideband RF amplification. Low feedback capacitance and dual-section construction suit balanced, heat-sink-cooled professional communications transmitter service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	26.5 V / 433 mA	PARALLEL HEATER	13.25 V / 866 mA
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM SCREEN VOLTAGE	360 V
MAXIMUM PLATE DISSIPATION	34 W
MAXIMUM SCREEN DISSIPATION	7 W
<i>Representative electrically identical section; repeated sections compressed per locked rule.</i>	

SECTION2 Tetrode	
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM SCREEN VOLTAGE	360 V
MAXIMUM PLATE DISSIPATION	34 W
MAXIMUM SCREEN DISSIPATION	7 W

Electrically equivalent companion to YL1070, with a different heater rating for heatsink-cooled equipment; intended for linear single-sideband RF amplification.

SOURCE OPERATING CONDITIONS

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 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
YL1070: Heater voltage $V_e = 6.3$	12.6 V	—
Heater current $I_r = 1.8$	900 mA	—
g YL1071: Heater voltage $V_e = 13.25$	26.5 V	—
Heater current $I = 0.866$	433 mA	—
Frequency f up to 60 upto	175 Mc/s	ClassC
Anode input power $W_i = \text{max. } 90 \text{ max}$	75 V	—
Anode dissipation $W, = \text{max. } 30 \text{ max}$	30 W	—
Anode current $I, = \text{max. } 110 \text{ max}$	110 mA	—
Grid No.2 voltage $V_{g2} = \text{max. } 300 \text{ max}$	300 V	—
Grid No.2 dissipation $W_{gz} = \text{max. } 7 \text{ max}$	7 W	—
Negative grid No.1 voltage — $V_{g1} = \text{max. } 175 \text{ max}$	175 V	—
Cathode to heater voltage $V_g = \text{max. } 100 \text{ max}$	100 V	—
Frequency f up to	60 Mc/s	ClassAB
Anode voltage $V, = \text{max. } 1000 \text{ max}$	1000 V	—
Anode input power $W_i, = \text{max. } 100 \text{ max}$	110 W	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode dissipation $W_a = \max.$ 30 max	34 W	—
Grid No.2 voltage $V_{g2} = \max.$ 360 max	360 V	—
Grid No.2 dissipation $W_{g2} =$ max. 3.5 max	4 W	—
Negative grid No.1 voltage — $V_{g1} = \max.$ 175 max	175 V	—
Grid No.1 current $I_{g1} = \max.$ 5 max	5 mA	—
Frequency f	7 Mc/s	—
Anode voltage V_a	1000 A	—
Grid No.2 voltage V_{g2}	250 v	—
Anode current $I_{a1} = 50$ 195	131 mA	—
Grid No.2 current $I_{g2+g2-} =$ 1.2 26	11.5 mA	—
Grid No.1 current $I_{g1}''_{g1} =$ 0 0.01	0.01 mA	—
Anode input power $W_{iata}' =$ 50 195	131 W	—
Anode dissipation $W_{ata}' = 50$ 54	61 W	—
Output power $W = -$ 141	1412 w	—
Anode voltage V_a	800 v	—
Grid No.2 voltage V_{g2}	250 A	—
Grid No.1 voltage V_{g1}	-34 v	—
Anode current I_{a1} 50 197	130 mA	—
Grid No.2 current I_{g2+g2}' 1.2 26	12.5 mA	—
Grid No.1 current I_{g1+g1}' 0 0.01	0 mA	—
Anode input power $W_{iata}' =$ 40 158	104 W	—
Anode dissipation $W_{apg} = 40$ 46	43 W	—
of the fifth order diS	< -45 dB	—
Anode voltage $vV,$	600 A	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 voltage V_{g1} ,	-32.5 v	—
voltage $V_{g1-p} = 0$ 32.3	32.5 V	—
Anode current $I_{a1} = 60$ 212	144 mA	—
Grid No.2 current $I_{g2+g2'}$ 1.9 25	13.5 mA	—
Grid No.1 current $I_{g1_},_{glv}$ 0 0.01	0 mA	—
Anode input power $W_{i1a1} =$ 36 127	86 W	—
Anode dissipation $W_{or1a1} = 36$ 88	48 W	—
Grid No.2 voltage V_{g2}	250 A	—
Grid No.1 voltage V_{g1}	-36 v	—
voltage $V_{g1-p} = 0$ 36	36 V	—
Anode current PRI = 35 216	144 mA	—
Grid No.2 current $I_{g2+g2'} =$ 1 25	13 mA	—
Grid No.1 current $I_{g1}'_{gl'}$ $= 0$ 0.05	0.02 mA	—
Anode input power $W_{i1a1} =$ 55 216	144 W	—
Anode dissipation $W_{o1a1} = 55$ 58	65 W	—
of the fifth order dig	< -45 dB	—
A V_{g1} ,	250 V	—
02 —	15 v	—
V92	200 V	—
I_{q1}	25 V	—
fA)	20 V	—
—	20 V	—
005 (A) A 00% 00€ o0oc 00! 0	0 S	—
fi I	~0.2 A	—
(V) EF4 10,14 (v} B o	100 mA	—
600 V4 (V) 1000 0 200 400 600	800 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
9 B 1965.01.01	10 C	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to all other elements except grid No.11 Cy	3.15 pF	—
Grid No.1 to all other elements except anode Cgl	10.6 pF	—
Anode to grid No.1 Cagl_	< 0.09 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage vV,	600 v	—
Grid No.2 voltage Vg2	250 v	—
Anode current Iy	40 mA	—

TUBE TINKER

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