



ELECTRONIC TUBE REFERENCE

YD1334

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Forced-air-cooled metal-ceramic coaxial power triode for Class AB broadband television-transposer service to approximately 1 GHz. Rated for approximately 1.8 kW plate dissipation for high-power UHF television amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 5.8 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.07 S
AMPLIFICATION FACTOR	90
MAXIMUM PLATE VOLTAGE	3500 V
MAXIMUM PLATE DISSIPATION	1800 W
MAXIMUM CATHODE CURRENT	550 mA
UHF RF power triode	

Forced-air-cooled metal-ceramic coaxial power triode for class-AB broadband television transposer service to 1000 MHz.

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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
quencies up to	1000 MHz	ClassAB;Transposer
Frequency f	470 to 860 MHz	Transposer
Anode voltage Va	2500 v	Transposer
Output power in the load (sync) Wl	110 w	—
Power gain G	16.5 dB	—
HEATING : indirect, by a.c. ([1]	50 Hz	—
HEATING : indirect, by a.c. ([2]	400 Hz	—
Heater current Ig 4,8t0	5.8 A	—
Cathode heating time Th min	180 s	—
To obtain optimum life, this temperature should not exceed	200 °C	—
ly The heater voltage must be adjusted between 6,0 and	6.3 V	—
Frequency f up to	1000 MHz	ClassAB;Transposer
Anode voltage Va max	3500 A	—
Anode dissipation Wa max.,	1800 w	—
Grid current Ig max. +	5 mA	—
Cathode current Ik max	550 mA	—
Frequency f	470 to 860 MHz	—
Grid voltage %) Vg	-25 v	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode current, no signal 4) I	200 to 300 mA	—
Grid current I _g	0 mA	—
Driver output power (sync) W _{ar}	4 w	—
Output power in load (sync) W _{IZ}	110 w	—
Power gain G	16.5 dB	—
Intermodulation products d	~60 dB	—
1) During a short period, for adjustment of the transmitter, I _y max	700 mA	—
Range values for equipment design ~10 to —	40 V	—
5y Three-tone method (vision carrier [1])	-8 dB	—
5y Three-tone method (vision carrier [2])	10 dB	—
The stated no-signal anode current results in optimum linearity [1]	-16 dB	—
The stated no-signal anode current results in optimum linearity [2]	0 dB	—
2 [F30VI+ [1]	25 V	—
2 [F30VI+ [2]	20 V	—
2 [F30VI+ [3]	15 V	—
2 [F30VI+ [4]	10 V	—
2 [F30VI+ [5]	5 V	—
2 [F30VI+ [6]	5 V	—
2 [F30VI+ [7]	10 V	—
2 [F30VI+ [8]	-15 V	—
y A	4 V	—
T ₄	-35 V	—
B ai o] L P	45 V	—
P; t _j = 25	0 C	—
H t	25 °C	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
/ AP - ~	1 A	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to grid Cag 6,8t0	8 pF	—
Grid to cathode and heater Cg/kf	20 to 30 pF	—
Anode to cathode and heater Ca/ke	90to 180 fF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage vV,	2 kv	—
Anode current Iy	400 mA	—
Transconductance S	70 mA	—

TUBE TINKER

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

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