



ELECTRONIC TUBE REFERENCE

YD1302

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 linear broadband television-transposer service to approximately 1 GHz. Rated for about 325 W plate dissipation with very high gain for UHF television amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 2.1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.06 S
AMPLIFICATION FACTOR	200
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM PLATE DISSIPATION	325 W
MAXIMUM CATHODE CURRENT	250 mA
UHF RF power triode	

Forced-air-cooled metal-ceramic coaxial power triode for class-AB linear 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
frequencies up to	1000 MHz	ClassAB;Transposer
Frequency f	470 to 860 MHz	Transposer
Anode voltage Vg	1900 V	Transposer
Output power in load (sync) Wy	55 W	—
Power gain G	19 dB	—
Heater current If	2.1 A	—
at reference point ty max	100 °c	—
Frequency	470 to 860 MHz	—
Bandwidth ([1]	-1 dB	—
Bandwidth ([2]	9 MHz	—
Grid voltage 2)	-6.6 v	—
Anode current, no signal	130 mA	—
Anode current at zero dB level (vision carrier)	180 mA	—
Power gain	19 dB	—
Intermodulation products 3)	-54 dB	—
3) Three-tone test method (vision carrier [1]	-8 dB	—
3) Three-tone test method (vision carrier [2]	-7 dB	—
2) To be adjusted for the stated no-signal anode current	-16 dB	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
For a vision to sound power ratio of 10:1 : IM products <	56 dB	—
value, with superimposed a	4.43 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid to cathode and heater Cg/xf	17 pF	—
Anode to cathode and heater Ca/kf	0.05 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage Va	1900 V	—
Anode current I,	180 mA	—
Transconductance S	60 mA	—