



ELECTRONIC TUBE REFERENCE

YD1300

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 300 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	0.055 S
AMPLIFICATION FACTOR	200
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM PLATE DISSIPATION	300 W
MAXIMUM CATHODE CURRENT	200 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 Va	1700 V	Transposer
Output power in load w,	35 W	—
Power gain G	20 dB	—
Frequency f	470 to 860 MHz	—
Anode voltage a	1700 V	—
Output power in load W,	35 W	—
Heater current I	2.1 A	—
Cathode heating time Ty min	120 s	—
Frequency f up to	1000 MHz	ClassAB;Transposer
Bandwidth (	-1 dB	—
Anode current at c.w. output power	35 W	—
4) Three-tone test method (vision carrier -8 a3, sound carrier	-7 dB	—
3) To be adjusted for the stated no-signal anode current,	-16 dB	—
For a vision-to sound power ratio of 10: 1: IM products f	-55 dB	—
with superimposed a	4.43 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to grid C _{ag}	3.5 pF	—
Grid to cathode and heater C _{g /Kt}	17 pF	—
Anode to cathode and heater C _{a/xf}	0.05 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage V _g	1700 V	—
Anode current I _a	170 mA	—
Transconductance S	55 mA	—
C 0,9	2.3 A	—