



ELECTRONIC TUBE REFERENCE

YD1333

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 about 960 MHz. Rated for approximately 900 W plate dissipation with high transconductance for UHF television power amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 5.4 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.07 S
AMPLIFICATION FACTOR	80
MAXIMUM PLATE VOLTAGE	3500 V
MAXIMUM PLATE DISSIPATION	900 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 about 960 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
service at frequencies up to	960 MHz	ClassAB;Transposer
HEATING: indirect by A.C. ([1]	50 Hz	—
HEATING: indirect by A.C. ([2]	400 Hz	—
Heater voltage V _h	6.3 V	—
Heater current I	5.4 A	Transposer
Cathode heating time 'I _{fh} min,	180 s	Transposer
Frequency up to	960 MHz	—
Anode voltage max,	3500 V	—
Grid voltage max	200 V	—
Anode dissipation max,	900 W	—
Grid dissipation max,	0.5 W	—
Cathode current max,	550 mA	—
Frequency	470 to 860 MHz	—
Range values -10 V _{to}	-30 V	—
3) Three tone test method (vision carrier [1]	-8 dB	—
3) Three tone test method (vision carrier [2]	-10 dB	—
signal	16 dB	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to grid	7.8 pF	—
Grid to cathode and heater	27 pF	—
Anode to cathode and heater	0.15 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage	2 kV	—
Anode current	250 mA	—
Transconductance	70 mA	—