ELECTRONIC TUBE REFERENCE

YD1332

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 and vision-amplifier service to about 960 MHz. Rated for approximately 1.8 kW plate dissipation for high-power UHF television systems.

General characteristics

BASE DESIGNATION	—	**BASE PINS**	—
NOMINAL HEATER	6.3 V / 6.5 A	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode

TRANSCONDUCTANCE	0.05 S
AMPLIFICATION FACTOR	110
MAXIMUM PLATE VOLTAGE	3500 V
MAXIMUM PLATE DISSIPATION	1800 W
MAXIMUM CATHODE CURRENT	700 mA

UHF RF power triode

Forced-air-cooled metal-ceramic coaxial power triode for class-AB broadband television transposer and vision-amplifier service to about 960 MHz.

SOURCE OPERATING CONDITIONS

1999 Philips E-Z

SOURCE PDF

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**	—
Frequency f up to	**960 MHz**	—
Anode voltage Va max	**3500 v**	—
Grid voltage -V max	**200 A**	—
Anode dissipation Wi max	**1800 w**	—
Grid dissipation Wg max,	**0.5 w**	—
Cathode current I max	**700 mA**	—
Frequency f	**470 to 860 MHz**	—
Anode voltage Va	**3000 A**	—
Anode current, no signal condition I	**420 mA**	—
Anode current 3) Ia	**510 mA**	—
Grid current 1 0to	**2 mA**	—
Driving power (sync) Vgdr	**5 w**	—
Output power in load Wy	**220 w**	—
Power gain G	**~ 16 dB**	—
Intermodulation products 4) d	**< -52 dB**	—
2) To be adjusted for the stated no-signal anode current. Range values -15Vto	**-22 V**	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
4) Three tone test method (vision carrier [1]	**8 dB**	—
4) Three tone test method (vision carrier [2]	**7 dB**	—
signal	**17 dB**	—
Anode voltage Va	**2500 v**	—
Anode current, no-signal condition Ig	**250 mA**	—
Anode current 2) I	**500 mA**	—
Grid current I	**0 mA**	—
Driving power (sync) ‘gdr	**8 w**	—
Output power in load W,	**250 w**	—
Power gain G	**15 dB**	—
Range values: -10 Vto	**-30 V**	—
2)1, at C.'W, output power	**250 W**	—

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to grid Cag	**8.5 pF**	—
Grid to cathode and heater Cg/kf	**28 pF**	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage	**2 kv**	—
Anode current	**400 mA**	—
Transconductance	**50 mA**	—

Tube Tinker

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

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