ELECTRONIC TUBE REFERENCE

YD1301

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

SECTION1 Triode

TRANSCONDUCTANCE	0.05 S
AMPLIFICATION FACTOR	200
MAXIMUM PLATE VOLTAGE	1800 V
MAXIMUM PLATE DISSIPATION	300 W

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

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	**1000 MHz**	ClassAB;Transposer
Heater current Is	**2.1 A**	—
Cathode heating time Th min,	**120 s**	—
Frequency f up to	**1000 MHz**	—
Anode voltage Va max	**1800 V**	—
Grid voltage -Vg max	**535 V**	—
Anode current Ia max	**200 mA**	—
Anode dissipation Wg max	**300 W**	—
Frequency f	**780 MHz**	—
Bandwidth ([1]	**0 dB**	—
Bandwidth ([2]	**8 MHz**	—
OPERATING CONDITIONS , grounded grid CCIR Standard G 1) [1]	**-1 dB**	—
OPERATING CONDITIONS , grounded grid CCIR Standard G 1) [2]	**11 MHz**	—
Anode voltage Va	**1700 V**	—
Grid voltage Vg	**-5 V**	—
Anode current, no-signal condition Ia	**120 mA**	—
Anode current ' Ig	**185 mA**	—
Output power in load (sync) Wl	**50 W**	—
Power gain G	**18 dB**	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Intermodulation products d	**-52 dB**	—
3) I3 at zero dB level [1]	**50 W**	—
3) I3 at zero dB level [2]	**0 dB**	—
with a three-tone test method (vision carrier [1]	**-8 dB**	—
with a three-tone test method (vision carrier [2]	**-7 dB**	—
band signal	**-17 dB**	—

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to grid Cag	**3.5 pF**	—
Grid to cathode and heater Cg/kf	**15 pF**	—
Anode to cathode and heater Ca/kf	**0.04 pF**	—

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage Va	**1700 V**	—
Anode current I,	**1700 mA**	—
Transconductance S	**50 mA**	—

Tube Tinker

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

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