

ELECTRONIC TUBE REFERENCE

YD1342

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Very-high-power metal-ceramic triode with integral water cooler for industrial Class C RF oscillator service to approximately 30 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	14 V / 555 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.23 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	18000 V
MAXIMUM PLATE DISSIPATION	240000 W
MAXIMUM GRID DISSIPATION	6000 W
MAXIMUM CATHODE CURRENT	55 A
Water-cooled industrial RF power triode	

Very-high-power metal-ceramic triode with integral water cooler for industrial RF class-C oscillator service up to 30 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
Oscillator output power (Wg – W.fgedb! Wosc	530 kW	Oscillator
Frequency for full ratings f. max	30 MHz	Oscillator
Frequency f 30 30	30 MHz	ClassC;Oscillator
Oscillator output power (Wg – Wedep) Wosc 355 440	530 kW	ClassC;Oscillator
Anode voltage Va 12 14	16 kV	Oscillator
Anode current Ia 39,1 1	435 A	Oscillator
Anode input power Wia 470 574	696 kW	Oscillator
Anode dissipation W, 106 125	156 kW	Oscillator
Anode output power Wo 364 449	540 kW	—
Grid current, on load Ig 8,4 8,2	7.7 A	Oscillator
Grid voltage, negative Vg 550 650	750 V	Oscillator
Grid dissipation Wy 38 3.8	3.8 kW	—
Grid resistor dissipation WRg 4,6 53	5.8 kW	—
Frequency for full ratings upto	30 MHz	—
Anode voltage max	18 kV	—
Anode input power max	750 kW	—
Anode dissipation max	240 kW	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid voltage max	2.5 kV	—
Grid dissipation max	6 kW	—
Grid circuit resistance max	10 kΩ	—
Filament current If	555 A	—
Peak filament starting current lfp max	3500 A	—
Absolute max. water inlet temperature T; max	50 °C	—
Absolute max. water pressure P max	600 kPa	—
Filament connector with cable type	40695 A	—
Filament/cathode connector with cable type	40696 A	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode to filament Caf	4.5 pF	—
Grid to filament Cgf	250 pF	—
Anode to grid	70 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Measured at Vo [1]	16 kV	—
Measured at Vo [2]	18 A	—
Transconductance	230 mA	—
f<	4 MHz	—
f>	4 MHz	—
*	100 kPa	—
V)	50 A	—
\ o	40 A	—
600 /	30 A	—
—	5 A	—
A ' [1]	1 A	—
A ' [2]	200 A	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
~J —	175 A	—
0	150 A	—
–600	0 mA	—

TUBE TINKER

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