90 35 58,8 185 50,8 27680

PHILIPS

TA 12/15

Description

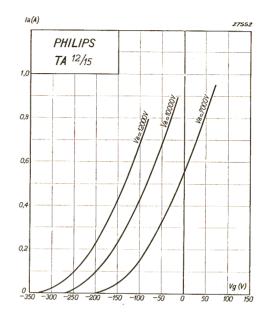
The triode TA 12/15 has a tungsten filament and has been specially designed for H.F. amplification in powerful transmitters for wavelengths down to 150 metres. In the table below the attainable output is indicated for various values of the efficiency at an anode voltage of 12,000 volts and the maximum anode dissipation of 7.5 kW, the maximum anode current being 1:25 amps (for telegraphy only). The TA 12/15 has a watercooled anode.

Efficiency	Input	Output	Anode dissipation
50 %	15 kW	7·5 kW	7:5 kW
60 %	15 kW	9 kW	6 kW
65 %	15 kW	9·8 kW	5:2 kW
70 %	15 kW	10:5 kW	4:5 kW

For use as a H.F. class B amplifier please refer to the table below

Anode	Anode	Depth of modulation	Carrier	Peak
voltage	current		power	power
12000 V	0.7 amp	100 °/ ₀	2·8 kW	11·2 kW
12000 V	0.75 amp	80 °/ ₀	3·3 kW	11·2 kW
12000 V	0.85 amp	60 °/ ₀	4·3 kW	11·2 kW

With H.F. class C anode modulation (Heising system) the anode voltage should not exceed 10,000 volts.



Technical Data

Filament voltage				
Filament current				
Total emission				
Anode voltage				
Max. permissible anode dissipation				
Anode dissipation during test				
Amplification factor				
Mutual conductance at $I_a = 0.8$ A				
Max. mutual conductance				
Internal resistance at I _a = 0.8 A				

$$V_f$$
 = 22.0 V
 I_f = appr. 41 A
 I_s = appr. 6 A
 V_a = max. 12000 V
 W_a = 7.5 kW
 W_{at} = 10 kW
 μ = appr. 40
 S_{norm} = appr. 5.5 mA/V

 $S_{max} = appr. 8:0 mA/V$

= appr. 7300 ohms