



## TH 296 TRIODE

The TH 296 is a forced air cooled ceramic metal transmitting triode. It can be used as oscillator or amplifier operating up to 500 MHz at maximum ratings.

The anode is capable of dissipating 12 kW. The TH 296 triode is especially designed for pulse amplifier.



## GENERAL CHARACTERISTICS

### Electrical

Type of cathode .....	thoriated tungsten
Heating .....	direct
Heater voltage .....	$7.5 \pm 3\%$ V
Heater current, approximate .....	110 A
Minimum cathode current at $V_a = V_g = +600$ V ....	50 A
Interelectrode capacitance, approximate :	
Cathode-grid .....	65 pF
Grid-anode .....	16 pF
Anode-cathode .....	0.3 pF
Amplification factor, average .....	100
Transconductance ( $I_a = 1$ A) .....	60 000 $\mu$ mhos



## Mechanical

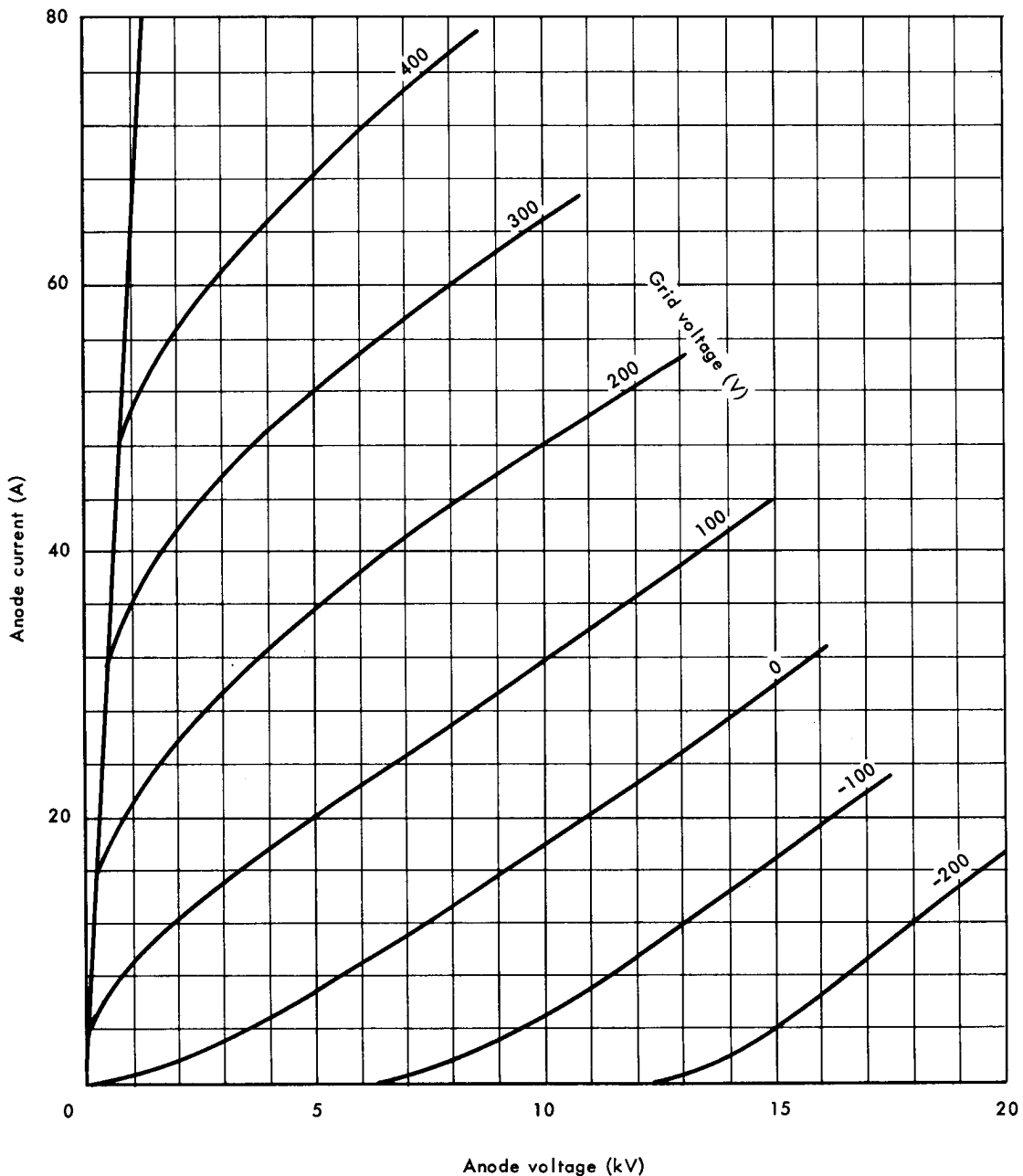
Mounting position .....	vertical
Anode cooling .....	forced air
Minimum air flow .....	12 m <sup>3</sup> /mn
Corresponding inlet air pressure .....	8 millibar
Maximum inlet air temperature .....	45 ° C
Maximum outlet air temperature .....	100 ° C
Minimum air flow on electrodes .....	3 m <sup>3</sup> /mn
Maximum electrode terminal temperature .....	250 ° C
Net weight .....	10 kg
Dimensions .....	see drawing

## Maximum ratings

DC anode voltage.....	15 kV
Grid bias voltage .....	- 1000 V
Peak cathode current .....	60 A
Anode dissipation .....	12 kW
Grid dissipation .....	350 W
Duty factor, max. ....	5%
Pulse length .....	500 μs
Maximum frequency at full load .....	500 MHz

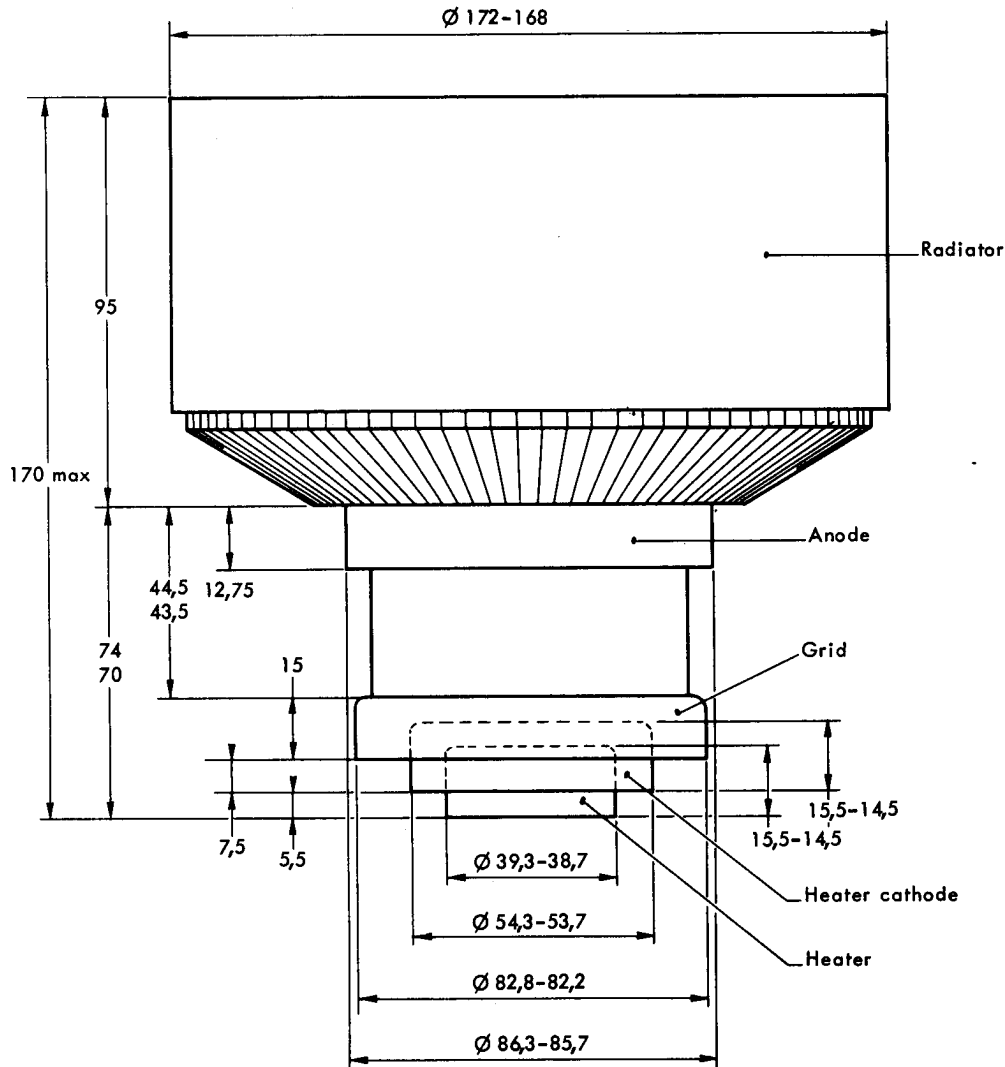


**AVERAGE ANODE CHARACTERISTICS**





OUTLINE DRAWING



Dimensions in mm.

