

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 μ mhos

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Mechanical

Mounting position	vertical
Anode cooling	forced air
Minimum air flow	12 m ³ /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 ³ /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



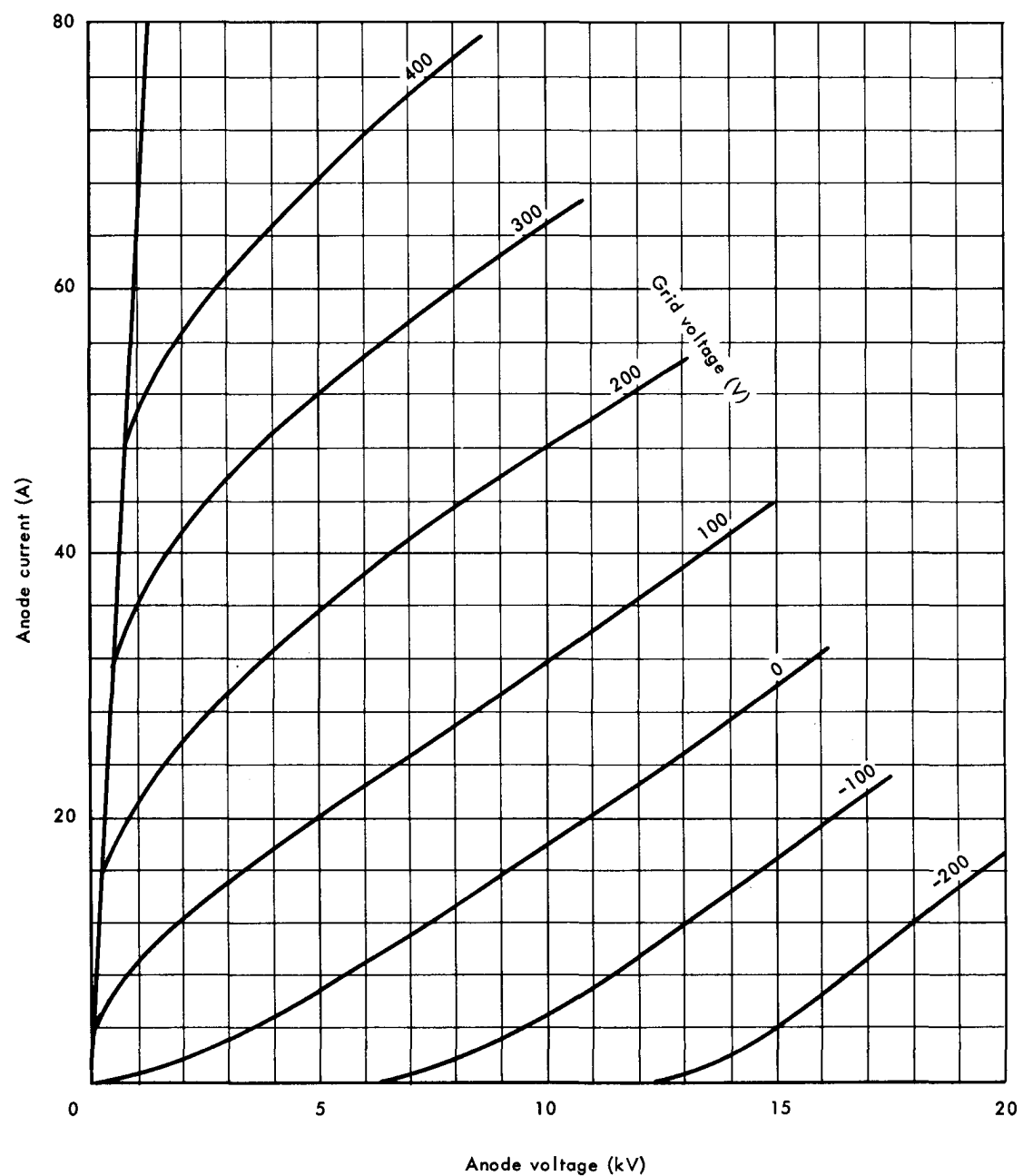
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TH 296

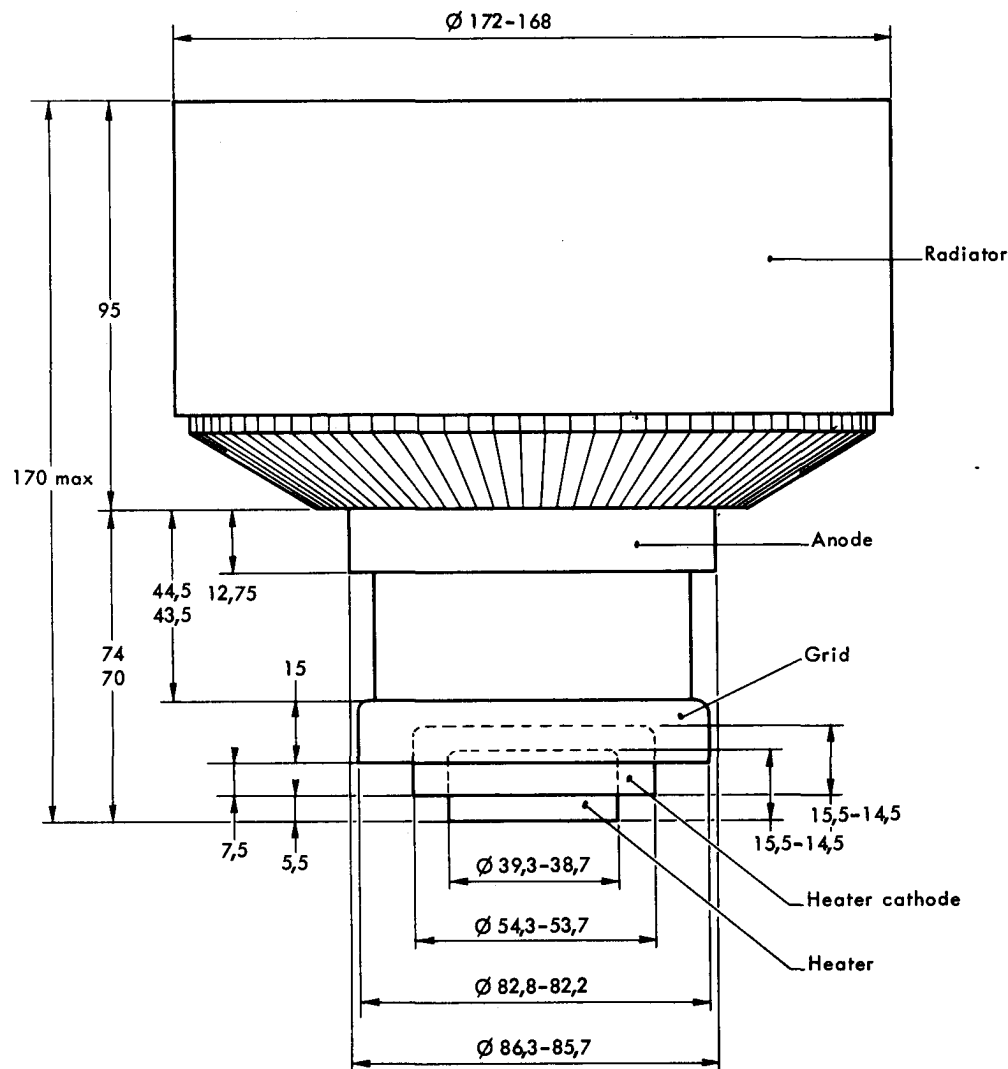
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AVERAGE ANODE CHARACTERISTICS





OUTLINE DRAWING



Dimensions in mm.

