TH 326 TRIODE

The TH 326 is a forced air cooled, ceramic metal high gain triode of planar structure. This tube is specially designed for highly linear ampiifier operating up to 1000 MHz without grid current in TV translators handling both sound and vision signals in the same channel with a crossmodulation better than 52 dB.

The anode is capable to dissipate 270 W.

GENERAL CHARACTERISTICS

Electrical

Type of cathode	Oxyde coated	
Heating	Indirect	
Heater voltage (1)	5.0 ± 2 %	V
Heater current, approximate	2	A
Minimum preheating time	3	mn
Interelectrode capacitances, approximate :		
- grid - anode	3.9	pF
- grid - cathode (cold)	22	pF
- cathode - anode (cold)	0.05	pF
Amplification factor	250	
Transconductance	80	mA/V

Mechanical

Mounting position	any	
Anode cooling (2)	forced air (see curves page 4)	
Maximum temperature at the radiator top	see curves page 4	
Maximum temperature of electrode terminals	150	°C
Net weight, approximate	170	g
Dimensions	see drawing	

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OPERATING CONDITIONS

Maximum ratings

Anode D.C. voltage	2000	V
Grid D.C. voltage	− 50	V
Cathode D.C. current	250	mA
Anode dissipation	270	W
Frequency	1000	MHz

CLASS A - LINEAR AMPLIFIER FOR TELEVISION TRANSLATOR

HANDLING BOTH SOUND AND VISION SIGNALS

C.C.I.R. STANDARD

Typical operations

Operating frequency	780	MHz
Anode D.C. voltage	1800	V
Anode D.C. current	140	mA
Gain	20	dB
Output video power	50	W
Crossmodulation level (3 tones test)	>52	dB*

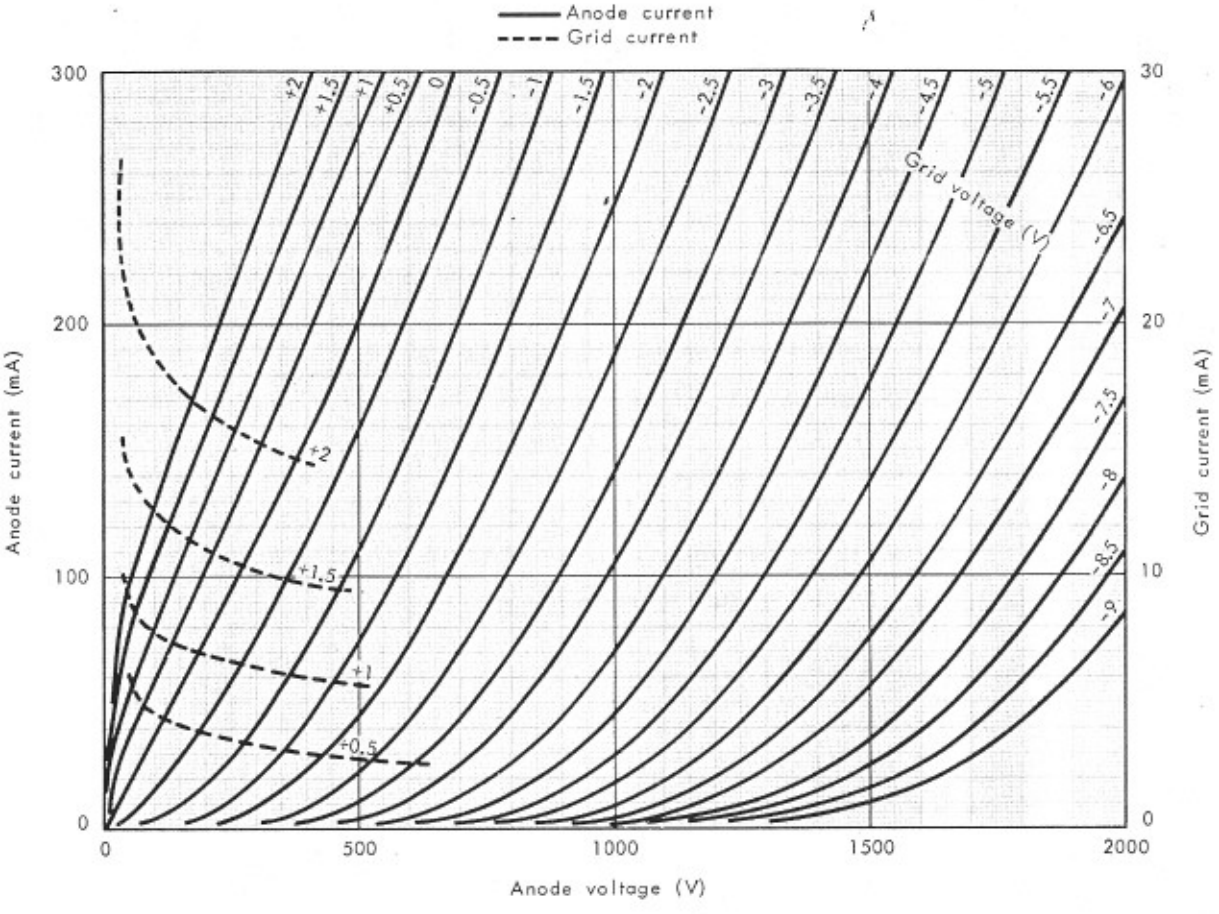
* Under video level.

NOTES

(1) In high frequency operation the cathode is subjected to considerable back bombardment which raises its temperature. After the circuit has been adjusted for proper tube operation, the heater voltage must be reduced to prevent overheating of the cathode resulting short life. Ask for information for any special application.

(2) The cooling airflow must be established before application of any electrode voltage.

CURRENT CHARACTERISTICS



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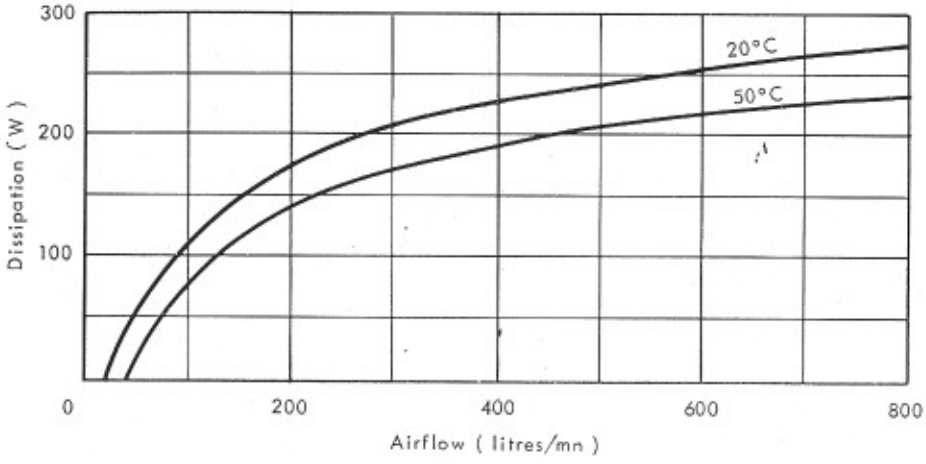
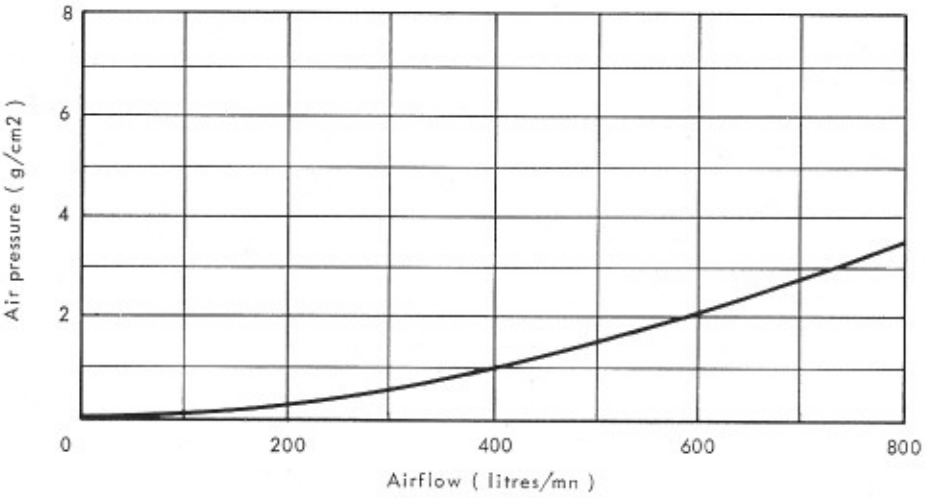
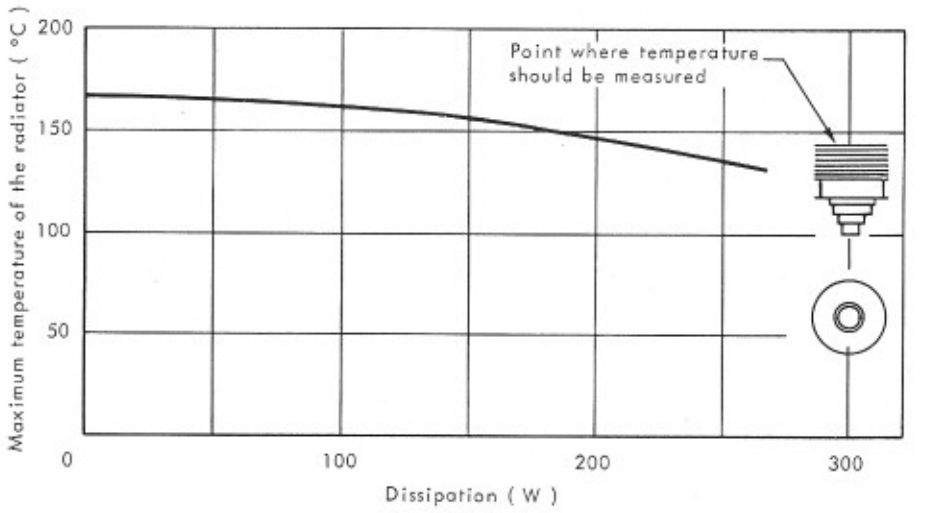
AIRFLOW VERSUS ANODE DISSIPATION
FOR INLET AIR TEMPERATURES OF 20°C AND 50°C



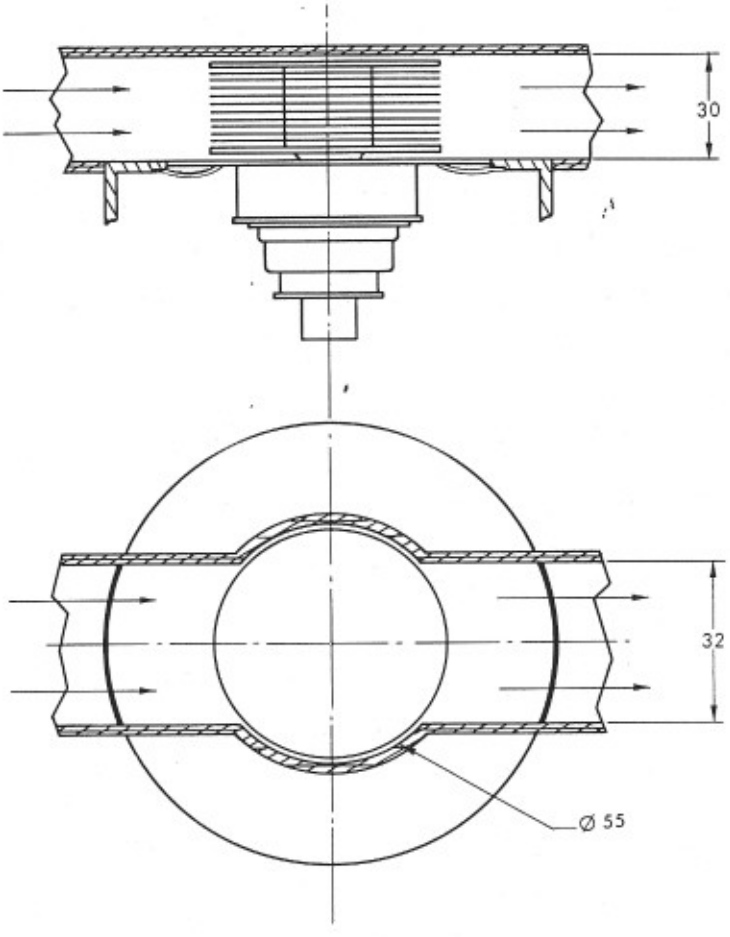
AIR PRESSURE AT THE ENTRANCE OF THE DUCT



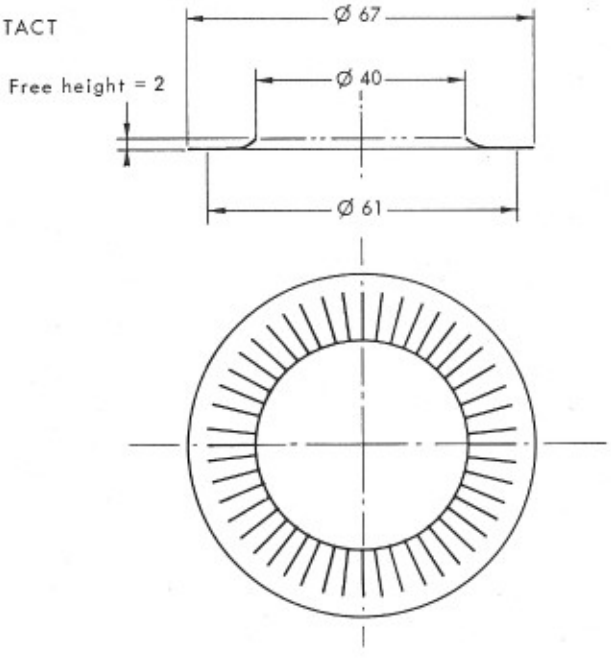
MAXIMUM TEMPERATURE ALLOWED AT THE TOP OF THE RADIATOR



DETAILS OF AIR DUCT



ANODE SPRING CONTACT



imensions in mm.

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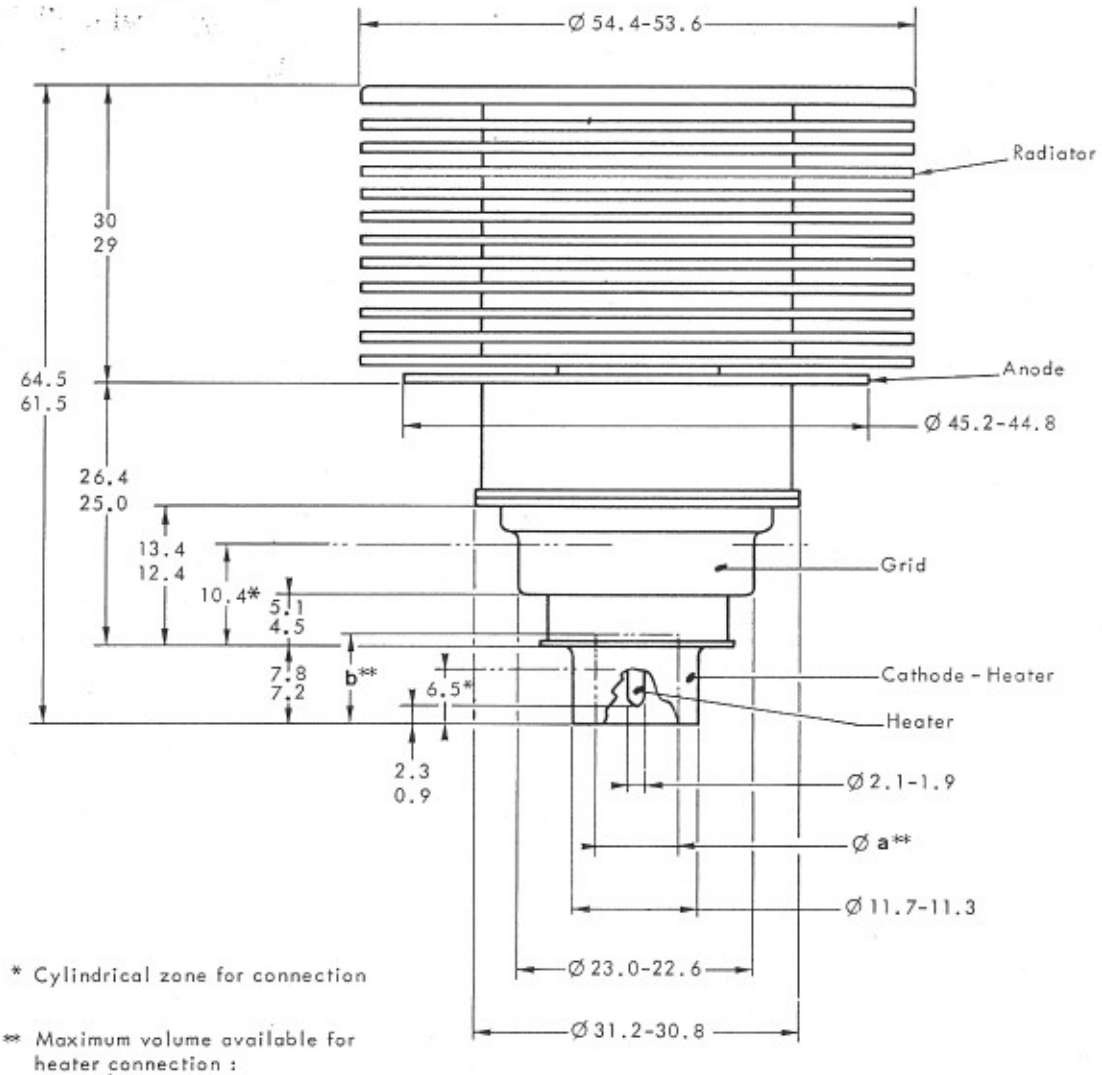
OUTLINE DRAWING



* Cylindrical zone for connection

** Maximum volume available for heater connection :
a = 8 b = 7.5

Dimensions in mm.