

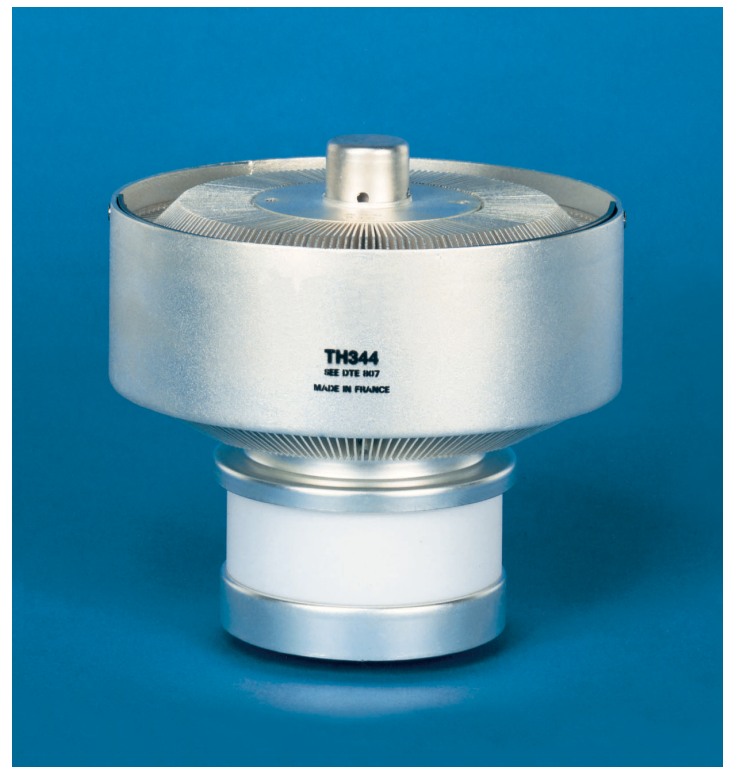
BROADCAST
FM RADIO

TH 344

FM tetrode

Up to 15 kW

- Frequency up to 120 MHz
- Excellent linearity
- High operating stability due to Pyrobloc[®] pyrolytic-graphite grids
- Forced air cooling



THALES



TH 344

The TH 344 is a ceramic-metal, air cooled tetrode of coaxial structure, designed for use in linear amplifiers of FM radio transmitters. To simplify the RF circuit and the screen grid decoupling with respect to the cathode, the control grid connection is located inside

the cathode connection. This tube is particularly suitable for grounded-cathode operation.

This product is designed, developed and manufactured at an ISO 9001 registered production site.

General characteristics

Heater supply (1)	9.5 V / 80	A
Amplification factor	8	
Transconductance (I _a = 3 A, V _{G2} = 800 V)	53	mA / V

Maximum ratings

Frequency	120	MHz
Anode voltage	9	kV
Anode current	6	A
Anode dissipation	12	kW
Control-grid dissipation	100	W
Screen-grid dissipation	300	W

**Typical operation at 98 MHz
grounded-cathode operation**

	Ex. 1	Ex. 2	
Output power	15	10	kW
- 0.2 dB bandwidth	300	300	kHz
Gain	23	23	dB
Anode voltage	8.5	7.5	kV
Screen grid voltage	750	700	V
Control grid bias voltage	- 90	- 100	V
Anode current, with signal	2.5	1.9	A
Screen grid current	250	180	mA
Control grid current	30	20	mA

Mechanical characteristics

Overall dimensions :

Height	170	mm
Diameter	171.5	mm
Weight	6.7	kg

(1) For power supply design only. Thales Electron Devices defines the operating voltage according to each particular operating conditions. This values must be observed to within ± 2 %.

This document cannot be considered to be a contractual specification. The information given herein may be modified without notice due to product improvement or further development. Consult Thales Electron Devices before making use of this information for equipment design.



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