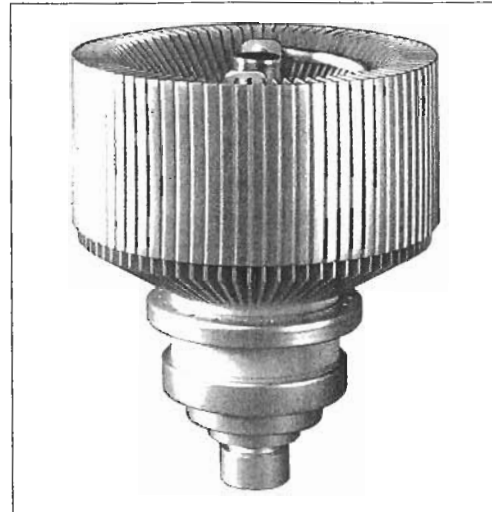




## ■ Output power up to 550 W

peak-of sync in common amplification  
up to 1.2 W in sound carrier amplification



### General characteristics

Cathode .....	thoriated tungsten
Heating (1) .....	direct
Interelectrode capacitances, approx.:	
cathode-control grid .....	40 pF
control grid-screen grid .....	50 pF
screen grid-anode .....	8.2 pF
Amplification factor, average .....	7
Transconductance (I <sub>a</sub> = 1.5 A, V <sub>g2</sub> = 400 V).....	40 mA/V
Operating position .....	vertical
Weight, approx. ....	2.3 kg
Dimensions .....	see page 55
Anode cooling (2).....forced air	
air flow, min. ....	2 m <sup>3</sup> /mn
corresponding pressure drop .....	2 mbar
outlet air temperature, max. ....	100 °C
Electrode terminal and ceramic seal cooling	
type .....	forced air
temperature on the tube, max. ....	250 °C

### Maximum ratings

Frequency .....	1000 MHz
Anode voltage .....	5 kV
Anode current .....	2 A
Anode dissipation.....	4.5 kW
Control-grid dissipation .....	5 W
Screen-grid dissipation .....	25 W

(1) Thomson Tubes Electroniques defines the operating voltage according to each particular situation.  
As an indication for equipment design purposes only, a heater voltage of 6 V produces a heating current of 34 A.  
(2) Values for cooling given for anode dissipation of 2 kW.

### Typical operation at 800 MHz in the matched cavity TH 18363

	Common amplification	Sound only	
Peak-of-sync output power	550	-	W
Sound carrier output power	-	1200	W
- 1 dB bandwidth	10	10	MHz
Intermodulation products	- 54	-	dB
Gain	15.5	15.5	dB
Anode voltage	3.5	4	kV
Screen-grid voltage	400	400	V
Anode current, with signal	0.65	1	A
Screen-grid current	2	5	mA
Control-grid current	negligible	negligible	
Anode current at zero signal	0.5	0.5	A

## TH 18363 matched circuit assembly

For UHF-TV transmitters and translators  
(Bands IV and V)

Operating frequency .....	470 to 860 MHz
Dimensions .....	644 x 268 x 200 mm
Weight, approx (without tube) .....	20 kg
RF connections:	
input .....	female, type N
output .....	standard EIA 7/8"
Cooling.....	forced air

