

■ Output power

up to 220 W
peak-of sync in common amplification

General characteristics

Cathode	oxide
Heating (1)	indirect
Interelectrode capacitances, approx.:	
cathode-grid	16 pF
cathode-anode	0.13 pF
grid-anode	7.3 pF
Amplification factor, average	80
Transconductance ($I_a = 0.25$ A)	45 mA/V
Operating position	any
Weight, approx.	1.2 kg
Dimensions	see page 55
Anode cooling (2).....forced air	
air flow, min.	1250 l/mn
corresponding pressure drop	4.5 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	2.5 kV
Anode current	0.6 A
Anode dissipation.....	1.2 kW

(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 6.3 V produces a heating current of 6 A.
(2) Values for cooling given for anode dissipation of 1 kW.

Typical operation at 780 MHz in the matched cavity TH 18462

	Common amplification	
Peak-of-sync output power	220	W
- 1 dB bandwidth	10	MHz
Intermodulation products	- 52	dB
Gain	16	dB
Anode voltage	2.4	kV
Grid voltage	- 22	V
Anode current, with signal	0.45	A
Anode current at zero signal	0.4	A

TH 18462 matched circuit assembly

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

Operating frequency	460 to 860 MHz
Dimensions	571.5 x 260 x 162 mm
Weight, approx (without tube)	10 kg
RF connections:	
input	female, type BNC
output	female, type N
Cooling	forced air

