

# HIGH POWER TRIODES AND TETRODES

FOR U.H.F T.V. TELECOM AND SPECIAL PROJECTS



100 W to 25 KW. C.W. up to 1200 mc/s

**CERAMIC TUBES**  
**VHF and UHF TRIODES**

Reference	Cathode		Amplification factor K	Transconductance m.mho	Maximum ratings					Frequency at 100 % Mc/s	Output power kW
	Ef V	If A			Ea kV	Ia Peak A	Wa kW	Wg1 W	Wg2 W		
TH 287	10	80	60	60	4,5	30	10	350	—	300	15
TH 292	6,3	7	90	40	2,5	4	0,8	10	—	600	0,700
TH 294	6,3	5,5	90	45	2,5	3	0,7	4	—	1 000	0,500
● TH 296	7,5	110	100	60	15	60	12	350	—	500	150
TH F6007	6,3	5,5	90	45	2,5	3	0,6	4	—	1 000	0,500

● Designed to deliver long RF pulses Max duty cycle : 5%

**CERAMIC TUBES**  
**UHF TETRODES**

TH 290	4	140	7	70	5	30	12	75	200	1 000	10
TH 293	5	40	7	30	4,5	9	4,5	25	75	1 000	3
TH 297	3	40	7	20	4,5	5	2	15	50	1 200	1,5
TH 291	5,3	200	7	100	5	45	18	200	300	1 000	15
● TH 491	5,3	200	7	100	5	45	30	200	300	1 000	25

● Vapour-cooled anode



**SHF TRIODES**

Reference	Cathode		Interelectrode capacitances			Ampl. factor k	Transconductance m.mho	Maximum ratings					Output power W	Nominal frequen. Mc/s		
	Ef V	If A	C uuF	G uuF	A uuF			Ea kV	Grid bias V	Ik A	Ig mA	Duty factor			Wa W	Wg W
● TH 6885	6,3	2,1	14	3,6	0,06	70	25	1,2	—150	0,25*	50	—	250	2	20	3 000
■ TH 6886	6,3	2,1	14	3,6	0,06	—	—	6	—	9**	—	0,0005	250	2	15 000	3 000

● Designed for CW operation  
 \* average

■ Designed for pulse operation  
 \*\* peak

Data and leaflets available at request.

**COMPAGNIE FRANÇAISE THOMSON-HOUSTON**  
 DIVISION TUBES ÉLECTRONIQUES - 6, RUE MARIO-NIKIS - PARIS 15<sup>e</sup> - TÉL. 783.91-00  
 U.S. REPRESENTATIVE: THOMSON ELECTRIC CO. 50 ROCKFELLER PLAZA - ROOM 916 - NEW YORK 20 (N.Y.) U.S.A.

# VAPOTRONS

10 LICENSEES THROUGHOUT THE WORLD

THOMSON  HOUSTON



## TH 495 500 kW C.W. OUTPUT

Since 1950 more than *20 000 000* 15 000.000 hours of service have been logged in broadcasting, communication transmitters and R.F. industrial generators by C.F.T.H. Vapotrons (vapor phase cooling) proof of the rugged reliability and long life time.

MORE THAN *8*

15 Years of experience.

150 Broadcasting and telecommunication transmitters.

→ 1,500 C.F.T.H. Vapotrons in operation.

→ 25,000 kW. installed in industrial R. F. application.

Reference	CATHODE		Amplification factor k	Transconductance $\mu$ mhos	MAXIMUM RATINGS			Freq. at 100 % Mc
	Ef V	If A			Ea kV	Wa kW	Wg W	
★ TH 470	15	380	50	100 000	40	10	1 500	200
TH 471	10	75	65	60 000	4,5	15	350	220
TH 475 A	6,3	80	25	25 000	7,5	10	300	40
TH 477	7,2	200	22	26 000	15	40	700	30
TH 478	18	310	65	130 000	15	150	4 000	30
TH 479	7,2	150	50	20 000	15	20	500	30
TH 480	12	200	25	65 000	15	70	1 800	10
TH 481	7,2	150	27	25 000	10	20	500	40
◆ TH 482	14,5	430	55	130 000	10	200	4 000	50
TH 484	12,6	310	30	100 000	15	90	2 500	30
TH 485	12,6	200	25	65 000	15	65	1 500	15
TH 486	7,2	130	20	20 000	15	20	500	30
◆ TH 491 +	5,3	200	$g_{1,2}^2$	100 000	5	30	200	1 000
◆ TH 495	20	500	70	190 000	18	400	6 000	30
★ TH 498	8	160	50	60 000	50	20	500	30
★ TH 499	14	220	25	130 000	50	70	1 800	30
★ TH 500	20	340	65	350 000	50	120	3 000	30
● TH 501	7,2	130	7,5	30 000	14	20	100	30
● TH 503	7,2	200	6	30 000	12	40	200	30
TH 504	16	430	55	130 000	15	150	4 000	30
● TH 505	12,6	200	6,5	65 000	15	80	600	30
◆ TH 507	7	250	90	100 000	8	50	600	300
★ TH 515	20	500	50	167 000	40	11	1 500	200

★ Modulating triodes

● Low amplifier factor triode

◆ Metal-ceramic triodes and tetrodes.

+ Tetrode for band IV and V Television transmitters.

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