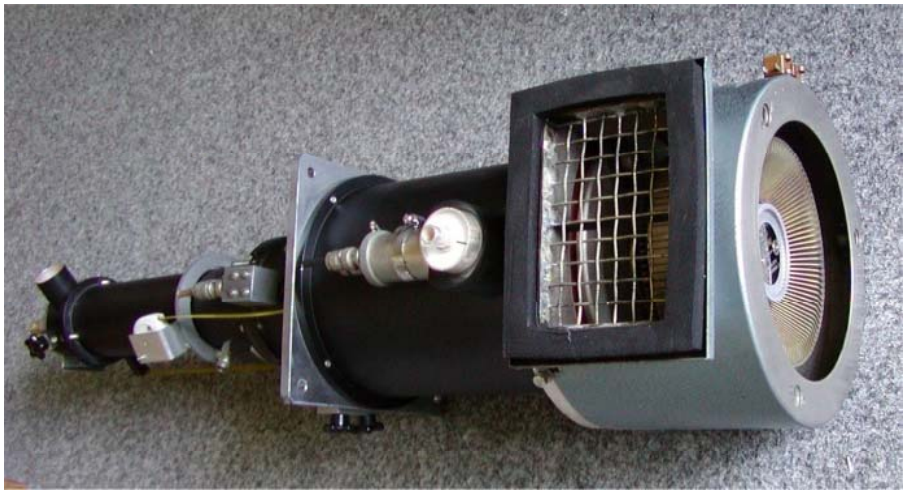
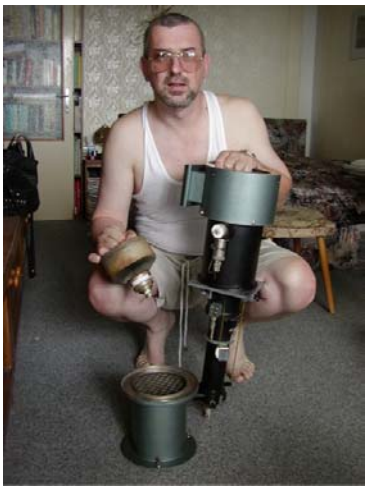
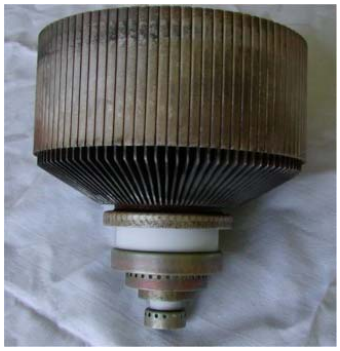
EME - PA 432 and 1296 MHz – TH313 - OK1DFC





Cavity with tube - Long 75 cm, weight 25kg



The TH 313 is a forced air-cooled ceramic metal tetrode, of coaxial structure. It can be use as a C.W. oscillator, or a grounded grid R.F. power amplifier at frequencies up tu 1,3 GHz. The anode can dissipate 7,5 kW.

TH313 is well adapted as a R.F. power amplifier in broadband television transmitters and in SSB or FM services.

TH313 – Parameters for SSB linear amplifier

Single side band suppressed – carrier service			
Two tone modulation			
Maximum ratings			
D.C. anode voltage	***6,0 kV***	*Anode dissipation*	***7 kW***
D.C. grid g2 voltage	***800 V***	*Grid g2 dissipation*	***75 W***
D.C. grid g1 voltage	***- 250 V***	*Frequency*	***1,3 GHz***
Anode Current at peak	***3,5 A***		
Typical operation			
D.C. anode voltage	***5,7 kV***	*Average g2 current at peak*	***70 mA***
D.C. grid g2 voltage	***700 V***	*Load impedance*	***1100 ohm***
Zero signal anode current	***0,7 A***	*Circuit efficiency*	***90%***
Anode Current at peak	***2,7 A***	*Average load power*	***3,5 kW***
Average anode current	***1,9 A***	*Load peak power*	***7 kW***