

TH 576High-power tetrode

550 kW in SW



- High output power
- Very high efficiency
- HypervapotronTM anode cooling
- High gain
- High stability due to Pyrobloc® grids





TH 576

he TH 576 is a ceramic-metal tetrode of coaxial structure, employing Hypervapotron anode cooling, designed for use in AF and RF amplifiers of frequencies up to 50 MHz. This tube brings increased efficiency to medium- and short-wave transmitters. Moreover, the TH 576's Pyrobloc grids result in highly stable operating characteristics. The anode cooling technique guarantees enhanced safety margins with respect to the operating point.

The 576 delivers up to 550 kW in SW with a high gain and a very high efficiency in the SW. Designed by Thales Electron Devices using well proven technologies, this tetrode draws upon our long experience in high-power AM radio tubes.

This product is designed, developed and manufactured in ISO 9001:2000 and ISO 14001 registered production site.

General characteristics

General Characteristics			
Heater supply (1)	19 V / 950	Α	
Amplification factor	5		
Transconductance (la = 35 A, VG2 = 1 000 V)	600	mA / V	
Maximum ratings			
Anode voltage	15	kV	
Control-grid voltage	- 1 000	V	
Screen voltage	2	kV	
Peak cathode current	650	Α	
Control-grid dissipation	4	kW	
Screen-grid dissipation	12	kW	
Typical operation SW			
Output power	550	kW	
Anode efficiency at 500 kW	87.5	%	
Frequency	26	MHz	
Anode voltage	15	kV	
Screen-grid dc voltage	1 200	V	
Control-grid dc voltage	- 650	V	
Anode dc current	39	Α	
Mechanical characteristics			
Dimensions :			
• height	705	mm	
• diameter	346	mm	
Weight	110	kg	
Cooling			
Anode, demineralized water	170	l/mn	min.
Tube base, air through dedicated socket	1.6	m³/mn	min.



(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 %.

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For further information, please contact:

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