

UHF TETRODE

TH382

Peak-of-sync output power in combined amplification:

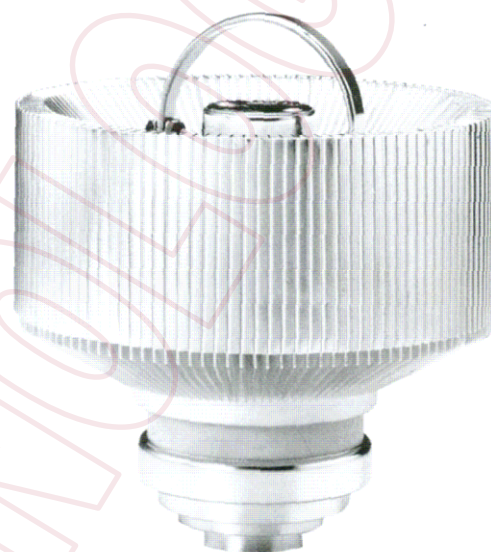
5.25 KW

Peak-of-sync output power in vision carrier amplification:

11 KW

GENERAL CHARACTERISTICS

Cathode	Thoriated tungsten
Heating	Direct, DC or single phase AC
Filament voltage	4.2V(1)
Filament current	125A (1)
Interelectrode capacitances, approx.:	
Cathode-control grid	72pF
Control grid-screen grid	93 pF
Screen grid-anode	13.2 pF
Transconductance (Ia=1.5A, Ug2=600V)	80mA/V
Internal amplification factor, average	8
Operating position	Vertical
Weight, approx:	7 kg
Dimensions	See page 95
Anode cooling(2)	Forced air
Airflow, min.	13000L/min
Corresponding pressure drop	800Pa
Temperature at air outlet, max.	100°C
Cooling at the sealing between electrode terminal and ceramic	Forced air
Temperature on tube surface, max.	300°C
(1) The operating filament voltage must be defined according to each Particular situation. As an indication for equipment design purposes only, a given filament Voltage of 4.2V produces a given filament current of 125A.	
(2) Values for cooling given for max. anode dissipation	

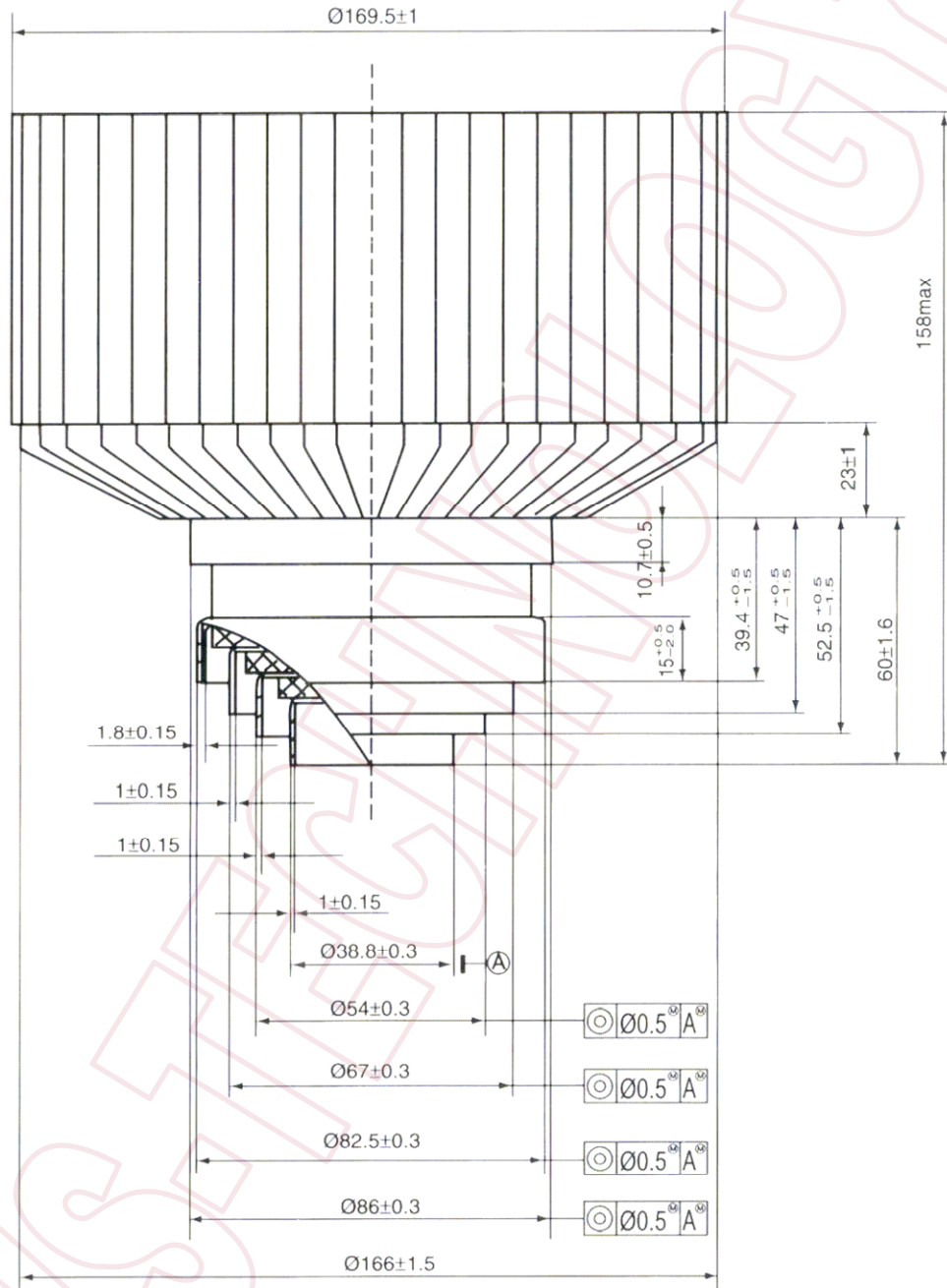


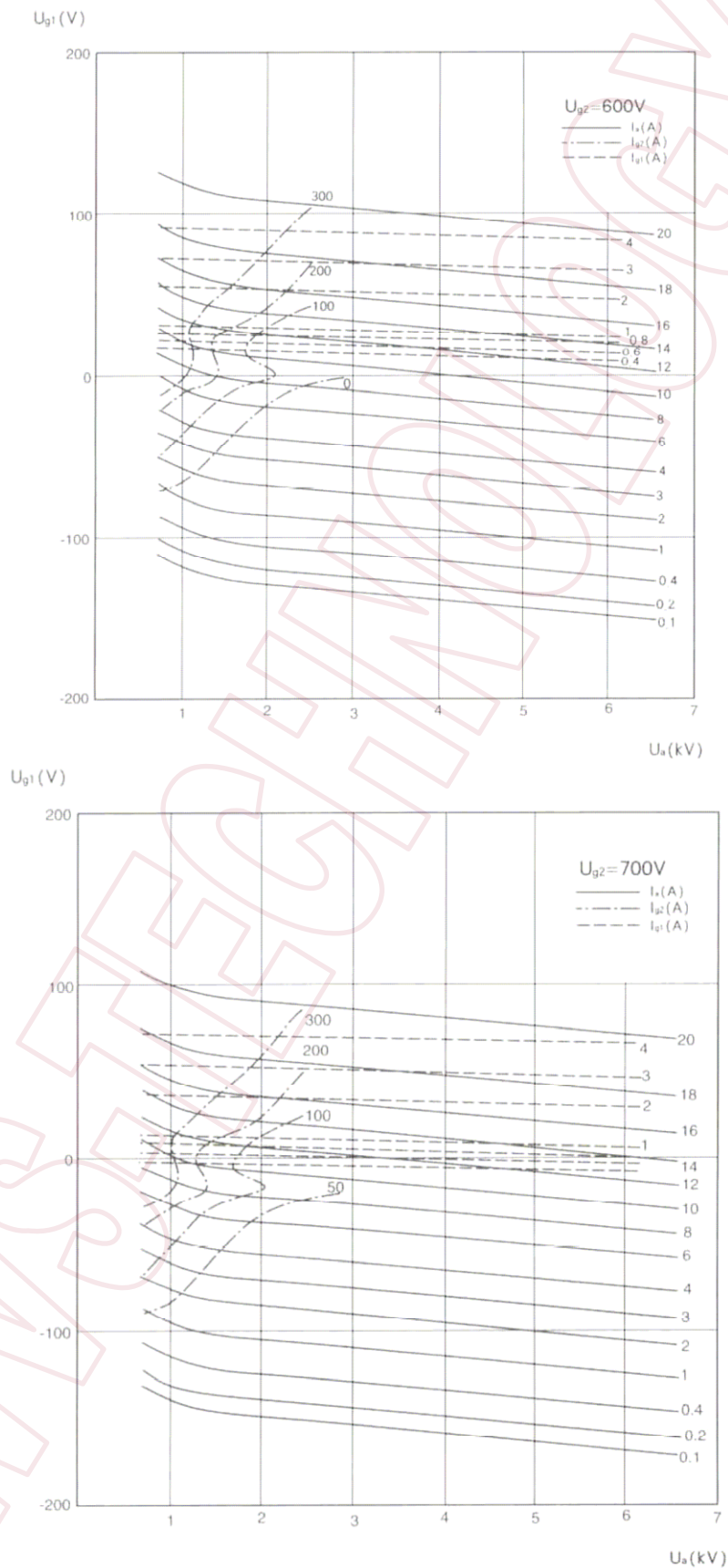
TYPICAL OPERATION

		Combined Service	Vision only
Frequency	[MHz]	800	800
Peak-of-sync output power	[kW]	5.25	11
Bandwidth (-1dB)	[MHz]	8	6
Intermodulation distortion	[dB]	-52	-
Gain	[dB]	15.5	15.4
Anode voltage	[kV]	5.5	5.5
Screen-grid voltage	[V]	600	600
Anode current (with signal)	[A]	2.7	3.25
Anode current (at zero signal)	[A]	1.5	1.2
Control-grid current	[mA]	10	5
Screen-grid current	[mA]	30	30

MAXIMUM RATINGS

Frequency	1000 MHz
Anode voltage	6.5kV
Anode current	4.5 A
Anode dissipation	12.5 kW
Control-grid dissipation	50 W
Screen-grid dissipation	120 W







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