〉〉 2019*(1453)* **UHF** tetrode

■ ***Peak-of-sync output power in combined amplification:10.5kW***

Peak-of-sync output power in vision carrier amplification :22kW

General characteristics

Cathode ……Thoriated tungsten

Heating……Direct

Filament voltage……4.2 V(1)

Filament current……146A(1)

Interelectrode capacitances,approx:

Cathode-control-grid……72pF

Control-grid-screen-grid……93pF

Screen-grid-anode……13.2pF

Transconductance(Ia=2.5A,U_{g2}=300V)……≥80mA/V

Internal amplification factor,average……8

Operating position……Vertical,anode up

Weight,approx.……4.1kg

Dimensions……See page 95

Anode cooling(2) ……Hypervapotron

Air flow ,min.……15l/min

Pressuer at water inlet,max.……5×105Pa

Temperature at air water outlet,max.……80℃

Cooling at the sealing between electrode terminal and ceramic··Forced air

Temperature on the surface of the tube,max.……300℃

(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 146A.

(2) Values for cooling given for maximum anode dissipation

Maximum ratings

Frequency……1000MHz

Anode voltage ……7.5kV

Anode current……5.5A

Anode dissipation……25kW

Control-grid dissipation……50W

Screen-grid dissipation……120W

Typical operation

	Combined Amplification	*Vision only*	
Frequency	700	700	MHz
Peak-of-sync output power	10.5	22	kW
Bandwidth(-1dB)	8	6	MHz
Intermodulation distortion	-48	-	dB
Gain	15	15.1	dB
Anode voltage	5.5	7.3	kV
Screen-grid voltage	600	800	V
Anode current(with signal)	3.45	4.3	A
Anode current(at zero signal)	1.5	1.6	A
Control-grid current	20	20	mA
Screen-grid current	50	60	mA