

RS2032CL

Power - Tetrode (NOT beam) (over 1000V 100W) electronic tube

High-power transmitting tetrode designed primarily for broadcast, FM, VHF, medium-wave, or short-wave transmitter RF power service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	–	BASE PINS	–
NOMINAL HEATER	9.5 V / 80 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.053 S
AMPLIFICATION FACTOR	8
MAXIMUM PLATE VOLTAGE	9000 V
MAXIMUM SCREEN VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	12000 W
MAXIMUM SCREEN DISSIPATION	270 W
MAXIMUM GRID DISSIPATION	70 W
MAXIMUM CATHODE CURRENT	6 A
Maximum ratings promoted from published rating tables; additional condition-specific values preserved in parameters.	

Coaxial metal-ceramic tetrode, forced-air-cooled, particularly suitable for FM transmitters in ground- ed cathode circuit. For an easy design of the tuned circuit the control grid terminal is coaxially led out within the cathode terminals. A direct dc blocking of the screen grid produced by the external cathode terminal is thereby possible. This arrangement of the terminals also prevents cross

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Siemens

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1963 SIEMENS

Section 1 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	8	—
Transconductance	53000 μ S	—
Emission current at $U_A = U_{G2} = U_{G1} = 300$ V	35 A V	—
Amplification factor of screen grid	8,0	—
at $U_A = 2$ kV, $U_{G2} = 600$	1000V, $I_A = 2$ A kV	—
Transconductance	53 mA/V mA/V	—
at $U_A = 2$ kV, $U_{G2} = 800$ V, $I_A = 1,5$	2,5 A kV	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	9,5 V V	—
Heater current	≈ 80 A A	—
Frequency	110 MHz MHz	—
Anode voltage (dc)	9,0 kV kV	—
Screen grid voltage (dc)	1000 V V	—
Control grid voltage (dc)	– 250 V V	—
Cathode current (dc)	6,0 A A	—
Peak cathode current	35 A A	—
Anode dissipation	12 kW kW	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen grid dissipation	270 W W	—
Control grid dissipation	70 W W	—
Frequency	≤ 110 MHz MHz	—
Output power	12 kW 1) kW	—
Anode voltage (dc)	7,5 kV kV	—
Screen grid voltage (dc)	800 V V	—
Control grid voltage (dc)	– 100 V 2) V	—
Peak control grid voltage (ac)	110 V V	—
Anode current (dc)	2,3 A A	—
Screen grid current (dc)	200 mA mA	—
Control grid current (dc)	50 mA mA	—
Anode input power	17,2 kW A	—
Drive power	30 W 3) W	—
Anode dissipation	5,2 kW kW	—
Screen grid dissipation	160 W W	—
Efficiency	70 %	—
Anode load resistance	1800 Ω Ω	—
Transmitter Tetrode	2032 CL	—
The	4470 is available for tube operation in the VHF range (accessories).	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
the centrally located control grid terminal, the temperature of which must not	280 °C. These	—
gram	25 °C inlet temperature at a normal air pressure of 1 bar (sea level). The cooling air a	—
Transmitter Tetrode	2032 CL	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode/control grid	≈ 95 pF pF	—
Cathode/screen grid	≈ 45 pF pF	—
Cathode/anode	≈ 0,04 pF 1) pF	—
Control grid/screen grid	≈ 76 pF pF	—
Control grid/anode	≈ 0,32 pF 1) pF	—
Screen grid/anode	≈ 22 pF pF	—
Transmitter Tetrode	2032 CL	—

COOLING		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transmitter Tetrode	2032 CL	—

TUBE TINKER

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