

RS2026CL

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

Forced-air-cooled coaxial tetrode for high-power television transmitters to approximately 300 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	–	BASE PINS	–
NOMINAL HEATER	9.5 V / 86 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.07 S
AMPLIFICATION FACTOR	7.4
MAXIMUM PLATE VOLTAGE	7000 V
MAXIMUM SCREEN VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	16000 W
MAXIMUM SCREEN DISSIPATION	150 W
MAXIMUM GRID DISSIPATION	50 W
MAXIMUM CATHODE CURRENT	8 A
Maximum ratings promoted from published rating tables; additional condition-specific values preserved in parameters.	

Coaxial metal-ceramic-tetrode, forced-air-cooled, for frequencies up to 300 MHz, particularly suitable for TV transmitters in grounded control-grid circuit. The radiator and the terminals are of concentric design with the following diameters: Anode terminal Ø 103,0 Heater/cathode terminal Ø 52,6

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	7.4	—
Transconductance	70000 μ S	—
Emission current at $U_A = U_{G2} = U_{G1} = 300$ V	35 A V	—
Amplification factor of screen grid	7,4	—
at $U_A = 2$ kV, $U_{G2A} = 600$	1000V, $I_A = 3$ A kV	—
Transconductance	70 mA/V mA/V	—
at $U_A = 2$ kV, $U_{G2} = 800$ V, $I_A = 2,5$	3,5 A kV	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	9,5 V V	—
Heater current	≈ 86 A A	—
Frequency	250 MHz MHz	—
Anode voltage (dc)	7,0 kV 1) kV	—
Screen grid voltage (dc)	1000 V 1) V	—
Control grid voltage (dc)	— 250 V V	—
Cathode current (dc)	8,0 A A	—
Peak cathode current	35 A A	—
Anode dissipation	16 kW kW	—
Screen grid dissipation	150 W W	—
Control grid dissipation	50 W W	—
Frequency	220 MHz MHz	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Bandwidth (– 3 dB)	10 MHz 2) MHz	—
Bandwidth (– 1,2 dB)	5,6 MHz 2) MHz	—
Output power, sync. level	22 + 0,65 3) kW 4) 8) kW	—
Output power, black level	12,3 + 0,36 3) kW 4) 5) kW	—
Anode voltage (dc)	6,5 kV 1) kV	—
Screen grid voltage (dc)	850 V 1) V	—
Control grid voltage (dc)	– 95 V 6) V	—
Peak control grid voltage (ac), sync. level	160 V V	—
Anode current (dc), black level	4,1 A 5) A	—
Screen grid current (dc), black level	130 mA 5) mA	—
Control grid current (dc), black level	70 mA 5) mA	—
Anode input power, black level	26,6 kW 5) A	—
Drive power, sync. level	14 + 650 3) W 7) W	—
Anode dissipation, black level	14,3 kW 5) kW	—
Screen grid dissipation, black level	100 W 5) W	—
Control grid dissipation, black level	5 W 5) W	—
Anode load resistance	700 Ω Ω	—
Transmitter Tetrode	2026 CL	—
The	4464 is available for tube operation in TV band lll (accessories).	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The temperature of the metal-ceramic seals must not	220 °C at any point and the	—
temperature of the internal cathode terminal must not	250 °C. These requirements can be	—
gram	25 ° inlet temperature at a normal air pressure of 1 bar (sea level). The cooling air a	—
Transmitter Tetrode	2026 CL	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode/control grid	≈ 75 pF pF	—
Cathode/screen grid	≈ 5,9 pF pF	—
Cathode/anode	≈ 0,08 pF 1) pF	—
Control grid/screen grid	≈ 127 pF pF	—
Control grid/anode	≈ 0,77 pF 1) pF	—
Screen grid/anode	≈ 21 pF pF	—
Transmitter Tetrode	2026 CL	—

COOLING		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transmitter Tetrode	2026 CL	—
Transmitter Tetrode	2026 CL	—