



ELECTRONIC TUBE REFERENCE

RS1034L

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

Extremely high-transconductance Siemens UHF power tetrode operating to approximately 960 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4.5 V / 200 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.12 S
AMPLIFICATION FACTOR	7.5
MAXIMUM PLATE VOLTAGE	5500 V
MAXIMUM SCREEN VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	13000 W
MAXIMUM CATHODE CURRENT	6 A
<i>Ratings, characteristics, and operating tables audited semantically; repeated identical systems represented once where applicable.</i>	

FRAME4/home/SMC-Archiv-DB/GG-RO-engl/DB-Senderoehren-96_BNR-B442-P4213-X-X-7600/RS1034

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage UF 4,5 V	—	—
at UA = UG2 = UG1 = 300 V	—	—
at UA = 2 kV, UG2 = 500 to 800 V, I A = 3 A	—	—
at UA = 2 kV, UG2 = 800 V, I A = 2 to 4 A	—	—
Frequency f 960 MHz	—	—
Anode voltage (dc) (RS 1034 L) UA 5,5 kV	—	—
Anode voltage (dc) (RS 1034 SK) UA 7,5 kV	—	—
Screen grid voltage (dc) UG2 1000 V	—	—
Control grid voltage (dc) UG1 – 200 V	—	—
Anode dissipation (RS 1034 L) PA 13 kW	—	—
Anode dissipation (RS 1034 SK) PA 25 kW	—	—
Screen grid dissipation PG2 180 W	—	—
Control grid dissipation PG1 80 W	—	—
Frequency f 470 ... 800 470 ... 800 MHz	—	—
Anode voltage (dc) UA 6,6 5,1 kV	—	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen grid voltage (dc) UG2 800 800 V	—	—
Control grid voltage (dc) UG1 – 110 – 110 V	—	—
Anode dissipation, black level PA SW 21,4 11,4 kW	—	—
Screen grid dissipation, black level PG2 SW 110 48 W	—	—
Frequency f 960 MHz	—	—
Anode voltage (dc) (RS 1034 L) UA 5,5 kV	—	—
Anode voltage (dc) (RS 1034 SK) UA 7,5 kV	—	—
Screen grid voltage (dc) UG2 1000 V	—	—
Control grid voltage (dc) UG1 – 200 V	—	—
Anode dissipation (RS 1034 L) PA 13 kW	—	—
Anode dissipation (RS 1034 SK) PA 25 kW	—	—
Screen grid dissipation PG2 180 W	—	—
Control grid dissipation PG1 80 W	—	—
Frequency f 470 ... 800 470 ... 800 MHz	—	—
Anode voltage (dc) UA 6,3 5,1 kV	—	—
Screen grid voltage (dc) UG2 800 800 V	—	—
Control grid voltage (dc) UG1 – 112 – 108 V	—	—
Anode dissipation, black level PA SW 16,2 10,1 kW	—	—
imum anode dissipation, as well as pressure drop and water outlet temperature at 70 °C water inlet	—	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
In conjunction with pull switch RÖKt11 it disconnects the voltages at the tube in case of overload	—	—
UG1 = f (UA) Parameter = IA	—	—
UG2 = 500 V Parameter = IG2	—	—
UG1 = f (UA) Parameter = IA	—	—
UG2 = 800 V Parameter = IG2	—	—

CURRENT		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current IF $\approx$ 200 A	—	—
Emission current I em 45 A	—	—
Cathode current (dc) IK 6,0 A	—	—
Peak cathode current IK M 40 A	—	—
Zero-signal anode current (dc) IA 0 2,2 4) 1,6 4) A	—	—
Anode current (dc), black level I A SW 5,3 4) 3,6 4) A	—	—
Screen grid current (dc), black level I G2 SW 140 60 mA	—	—
Cathode current (dc) IK 6,0 A	—	—
Peak cathode current IK M 40 A	—	—
Zero-signal anode current (dc) IA 0 1,8 1,8 A 3)	—	—
Anode current (dc), black level I A SW 3,9 2,8 A	—	—
Screen grid current (dc), black level I G2 SW 90 50 mA	—	—
Ø 0,12 mm should be used to test the anode overcurrent trip circuit.	—	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor of screen grid $\mu g1$ 7,5	—	—
Transconductance s 120 mA/V	—	—

TUBE TINKER

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