ELECTRONIC TUBE REFERENCE

RS1034SK

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Higher-power Siemens RS1034-family UHF tetrode with 25 kW plate dissipation for operation 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

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.12 S
AMPLIFICATION FACTOR	7.5
MAXIMUM PLATE VOLTAGE	7500 V
MAXIMUM SCREEN VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	25000 W
MAXIMUM CATHODE CURRENT	6 A

Ratings, characteristics, and operating tables audited semantically; repeated identical systems represented once where applicable.

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

SOURCE OPERATING CONDITIONS

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 ≈ 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 µg2g1 7,5	–	—
Transconductance s 120 mA/V	–	—

Tube Tinker

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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