



## ELECTRONIC TUBE REFERENCE

## RS2011L

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Directly heated low-mu Siemens power triode for AF driver, modulator, and RF amplifier service. Rated for approximately 12 kW plate dissipation and 11 kV plate voltage, with low gain favoring high-current driver stages.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 10 V / 70 A       | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                      |         |
|----------------------------------------------------------------------------------------------------------------------|---------|
| SECTION 1 Triode                                                                                                     |         |
| TRANSCONDUCTANCE                                                                                                     | 0.02 S  |
| AMPLIFICATION FACTOR                                                                                                 | 15      |
| MAXIMUM PLATE VOLTAGE                                                                                                | 11000 V |
| MAXIMUM PLATE DISSIPATION                                                                                            | 12000 W |
| MAXIMUM GRID DISSIPATION                                                                                             | 100 W   |
| MAXIMUM CATHODE CURRENT                                                                                              | 5 A     |
| Maximum ratings promoted from published rating tables; additional condition-specific values preserved in parameters. |         |

Directly heated low-mu power triode family for AF driver, modulator, and RF amplifier service, offered in air-, water-, and vapor-cooled versions.

## 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 · Triode

| CHARACTERISTICS      |                 |                  |
|----------------------|-----------------|------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE |
| Amplification factor | 15              | —                |
| Transconductance     | 20000 $\mu$ S   | —                |

| OTHER     |                       |                  |
|-----------|-----------------------|------------------|
| PARAMETER | PUBLISHED VALUE       | CONDITION / NOTE |
| f <       | 30 MHz MHz            | —                |
| NTr =     | 6 xw 1)               | —                |
| Ua =      | 6 KV KV               | —                |
| Ug fest = | -400 v v              | —                |
| Rg =      | 3 kQ                  | —                |
| Ugs =     | 1260 v v              | —                |
| Ia =      | 1,25 A A              | —                |
| Ig =      | 210 mA mA             | —                |
| Na =      | 7,5 kW kW             | —                |
| Nat =     | 260 w 1) w            | —                |
| Qa =      | 1,5 kw 2) kw          | —                |
| Qg =      | 40 w w                | —                |
| n =       | 80 %                  | —                |
| Ra =      | 2,7 o)                | —                |
| m =       | 100 %                 | —                |
| Nrmod =   | 3,75 KW KW            | —                |
| Ig =      | 240 mA H8chstwerte mA | —                |
| Ngt =     | 295 w 1) beiU, =0V w  | —                |

| PARAMETER                    | PUBLISHED VALUE                                           | CONDITION / NOTE |
|------------------------------|-----------------------------------------------------------|------------------|
| I <sub>g</sub> =             | 200 mA bei Modulationsspitze mA                           | —                |
| N <sub>gt</sub> =            | 245 W 1) W                                                | —                |
| werden. Es ist zu beachten,  | 100-prozentiger Modulation die Anodenverlustleistung etwa | —                |
|                              | 1,5-fache der für den Triggerwert angegebenen             | —                |
| B-Betrieb                    | 2 Röhren in Gegentaktschaltung                            | —                |
| U <sub>i</sub> =             | 1 kV kV                                                   | —                |
| U <sub>g</sub> =             | -1000 V V                                                 | —                |
| I =                          | 5 A A                                                     | —                |
| I <sub>ksp</sub> =           | 20 A A                                                    | —                |
| Q, (RS 2011 L) =             | 8 kW kW                                                   | —                |
| Q, (RS 2011 W) =             | 8 kW W                                                    | —                |
| Q <sub>a</sub> (RS 2011 V) = | 12 kW V                                                   | —                |
| Q <sub>g</sub> =             | 100 W W                                                   | —                |
| R <sub>g</sub> =             | 10 kΩ                                                     | —                |
| N <sub>a..</sub> = Y]        | 39 0 16 0 16 kW kW                                        | —                |
| U <sub>a</sub> =             | 10 10 10 kV kV                                            | —                |
| U <sub>g-gs</sub>            | 0 1950 [ 1720 0 1500 V V                                  | —                |
| I <sub>a</sub> =             | 2x0,3 2x2,67 2x0,3 2x1,1 2x0,3 2x4,5 A A                  | —                |
| I <sub>s</sub> = "]          | 2x185 0 2x42 0 0 mA mA                                    | —                |
| I <sub>gsp</sub> =           | 0 2x1,6 0 2x0,42 0 0 A A                                  | —                |
| N <sub>a</sub> =             | 2x3 2x26,7 2x3 2x11 2x3 2x15 kW kW                        | —                |
| N <sub>gt</sub> =            | 0 2x170 0 2x32 0 0 W W                                    | —                |
| Q <sub>a</sub> =             | 2x3 2x7,2 2x3 2x3 2x3 2x7 kW kW                           | —                |
| Q <sub>g</sub> =             | 0 2x30 0 2x1 0 0 W W                                      | —                |
| n =                          | - 73 - 73 - 53 %                                          | —                |
| \ - \ /                      | 7                                                         | —                |
| R <sub>aa</sub> =            | 4,15 10,1 6,1 %0}                                         | —                |
| ROBK 2252/1.10.61            | 5                                                         | —                |
| B-Betrieb                    | 2 Röhren in Gegentaktschaltung                            | —                |
| U <sub>a</sub> =             | 14 kV kV                                                  | —                |
| U <sub>g</sub> =             | -1000 V V                                                 | —                |
| I <sub>k</sub> . =           | 5 A A                                                     | —                |

| PARAMETER        | PUBLISHED VALUE                           | CONDITION / NOTE |
|------------------|-------------------------------------------|------------------|
| Iksp =           | 20 A A                                    | —                |
| Qa (RS 2011 L) = | 8 kW kW                                   | —                |
| Qa (RS 2011 W) = | 8 KW W                                    | —                |
| Q, (RS 2041 V) = | 12 kW V                                   | —                |
| Qg =             | 4100 w w                                  | —                |
| Rg =             | 10 kΩ                                     | —                |
| Ny~ =            | -0 16 0 10 0 10 kW kW                     | —                |
| N —              | 7 \ 7                                     | —                |
| U, =             | 8 8 8 kv kv                               | —                |
| Ug ca.           | -600 -610 -620 \ '2                       | —                |
| Ug.gs =          | 0 1470 0 1380 0 1226 Vv                   | —                |
| I, =             | 2x0,25 2x1,4 2x0,2 2x0,9 2x0,45 2x1,1 A A | —                |
| Ig =             | 0 2x60 2x27 0 0 mA mA                     | —                |
| Igsp =           | 0 2x0,6 0 2x0,27 0 0 A A                  | —                |
| Na =             | 2x2 2x11,2 2x1,6 2x7,2 2x1,2 2x8,8 kW kW  | —                |
| Ngt =            | 0 2x43 2x18 0 0w                          | —                |
| Qa =             | 2%l 2x3,2 2x1,6 2x2, 2 2x1,2 2x3,8 kWW %  | —                |
| Qg =             | 0 2x7 0 2x1,5 0 0w                        | —                |
| n =              | - 72 - 70 - 57 %                          | —                |
| Raa =            | 6,12 9,8 5,5 kΩ                           | —                |
| Ua =             | 1 KV KV                                   | —                |
| Ug =             | -1000 v v                                 | —                |
| Ik =             | 5 A A                                     | —                |
| Iksp =           | 20 A A                                    | —                |
| Q. (RS 2011 L) = | 8 kW kW                                   | —                |
| Qa (RS 2011 W) = | 8 kw W                                    | —                |
| Qa (RS 2011 V) = | 12 kw V                                   | —                |
| Qg =             | 100 w w                                   | —                |
| Rg =             | 10 kΩ                                     | —                |
| Uggs =           | 7 0 1035 " 0 1550 \4                      | —                |
| Uk-ks =          | 0 675 0 910 v v                           | —                |
| Ig =             | 0 0 o 0 A A                               | —                |

| PARAMETER                                              | PUBLISHED VALUE                     | CONDITION / NOTE |
|--------------------------------------------------------|-------------------------------------|------------------|
| Ik =                                                   | 2x0 2 2x0,6 2x0, 5 2x1, 85 A A      | —                |
| Isp = (2x0,2)                                          | 2x3,5 (2x0, 5) 2x9, 8 A A           | —                |
| N, =                                                   | 2x0, 54 2x1, 62 2x2, 35 2x9,1 kw kw | —                |
| Qa =                                                   | 2x0,54 2x1,43 2x2, 35 2x8, 35 KW KW | —                |
| Ug-gs                                                  | 150V                                | —                |
| ROK 2252/1.10.61                                       | 7                                   | —                |
| an keiner Stelle eine h8here Temperatur                | 220 °C annehmen. Zur Ein-           | —                |
| ROK 2252/1.10.61                                       | 9                                   | —                |
| Der statische Kithlwasserdruck                         | 5 att nicht ttterschreiten,         | —                |
| (Qa+Qg+0,8Nn)<br>.ovvvennnnnnnannn. e<br>cveneeeee.    | 12,7 kW kW                          | —                |
| Aquivalente Wirmeleistung<br>..... eieen<br>vesevesess | 182 kcal/min                        | —                |
| bei<br>Wasserrückflußtemperatur<br>20°C ..,..... ca.   | 0,5 m3/min °C                       | —                |
| bei Wasserrücklufttemperatur<br>90°C ..,..... ca.      | 0,56 m3/min °C                      | —                |
| bei Wasserrückfluttemperatur<br>200C ..,..... ca.      | 0,3 l/min                           | —                |
| bei Wasserrückfluttemperatur<br>90°C ..,..... ca.      | 0,35 l/min °C                       | —                |
| 3618018                                                | 7 ~—                                | —                |

## TUBE TINKER

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