ELECTRONIC TUBE REFERENCE

RS2021W

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

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Directly heated Siemens transmitting triode for RF amplification, oscillation, and modulation to about 70 MHz. Rated for approximately 60 kW plate dissipation and 16 kV plate voltage for major transmitter installations.

General characteristics

BASE DESIGNATION	—	**BASE PINS**	—
NOMINAL HEATER	12.6 V / 160 A	**PARALLEL HEATER**	— / —
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode	
TRANSCONDUCTANCE	0.06 S
AMPLIFICATION FACTOR	58
MAXIMUM PLATE VOLTAGE	16000 V
MAXIMUM PLATE DISSIPATION	60000 W
MAXIMUM GRID DISSIPATION	1300 W
MAXIMUM CATHODE CURRENT	18 A

Maximum ratings promoted from published rating tables; additional condition-specific values preserved in parameters.

Directly heated transmitting triode family for RF amplifier, oscillator, and modulator service up to about 70 MHz, 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	58	—
Transconductance	60000 µS	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RS 2021 V	2021 V V	—
f <	10 10 30 30 MHz MHz	—
Ny~ =	85 110 85 110 kw 1) kw	—
Ua =	15 15 12 12 kv kv	—
Ug =	-260 -260 -210 -210 v v	—
Ugs =	520 600 520 650 v v	—
I, =	7,75 10,1 9,85 12,7 A A	—
Iy =	1,3 2 1,9 3 A A	—
Na =	116,3 151 118 153 kW kW	—
Ngt =	610 1080 880 1770 w 1) w	—
Q, =	31,3 41 33 43 kW kW	—
Qg =	270 560 480 1140 w w	—
n =	73 73 72 72 7	—
R, =	1235 920 715 590 Q	—
f <	10 30 60 MHz MHz	—
u, =	15 12 8,5 KV KV	—
Uy =	-1000 -1000 -1000 v v	—
I =	18 18 18 A A	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ixep =	65 65 65 A A	—
Q,(RS2021L) =	35 35 35 kW kW	—
Q, (RS2021W) =	45 45 45 KW KW	—
Q,(RS2021 V) =	60 60 60 kW V	—
Qg =	1,3 1,3 1,1 KW KW	—
f <	10 30 60 MHz MHz	—
N~ =	85+3,1 2) 35¢3,9 2) 5743,5 2) kw 1) kw	—
U, =	15 12 8 KV KV	—
Ug =	-260 -210 -130 v v	—
Ugs =	520 520 460 3) v v	—
1, =	7,75 9,85 10 A A	—
Iy =	1,3 1,8 2,3 A A	—
N, =	116,3 118 80 kW kW	—
Ngt =	0,6143,12) 0,88x3,9 2) 0,93+3,5 2) kw 1) kw	—
Q, =	270 480 630 w w	—
R, =	1280 815 490 Q	—
£ <	10 30 MHz MHz	—
U, =	15 12 kv kv	—
U, =	-1000 -1000 v v	—
I =	18 18 A A	—
Iksp =	65 65 A A	—
Q. (RS 2021 L) =	35 35 kW kW	—
Q, (RS 2021 W) =	45 45 kW W	—
Q, (RS 2021 V) =	60 60 kW V	—
Q, =	1,3 1,3 kW kW	—
f <	10 30 30 30 MHz MHz	—
Na~ =	120 90 72 55 kw 1) kw	—
Ua =	15 12 10 8 KV KV	—
Uy =	-600 -550 -500 -450 v v	—
I, =	9,75 9,25 9,0 8,75 A A	—
Iy =	2,2 2,2 2,1 1,85 A A	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
N, =	146 111 90 70 XW	—
Ngt =	2,1 1,9 1,7 1,55 kw U kw	—
Q, =	26 21 18 15 kW kW	—
Q, =	780 690 650 605 w w	—
n =	82 81 80 78,5 %	—
R, =	850 710 600 485 Q	—
ROK 2253/1.4.62	5	—
£ <	10 30 MHz MHz	—
U, =	-1000 -1000 v v	—
I =	18 18 A A	—
hesp =	65 65 A A	—
Q, (RS 2021 L) =	35 35 kW kW	—
Q, (RS 2021 W) =	45 45 kW W	—
Q, (RS 2021 V) =	60 60 kW V	—
Qg =	1,3 1,3 kW kW	—
f <	10 30 30 30 MHz MHz	—
Np~ =	12048,5 2) 9047,7 2) 7246,9 &) s5546,1 &) kw 2 kw	—
u, =	15 12 10 8 kv kv	—
Uy =	-600 -550 -500 -450 v v	—
Ugs =	1000 940 875 810 v v	—
I, =	2,2 2,2 2,1 1,85 A A	—
N, =	146 111 90 70 kW kW	—
Ny =	2,148,5 2 1,047,7 2 1,746,929 1,5546,12) ww 1)	—
Q, =	26 21 18 15 kW kW	—
Q =	780 690 650 605 W W	—
R, =	910 770 656 540 Q	—
£ <	30 MHz MHz	—
U, =	11 kV kV	—
Ug =	-1000 v v	—
I =	12 A A	—
Q, (RS 2021 L) =	35 kW kW	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Q, (RS 2021 W) =	**45 KW W**	—
Qa (RS 2021 V) =	**60 kW V**	—
Qg =	**1,3 kW kW**	—
£ <	**30 30 MHz MHz**	—
Nry =	**66 55 kw 1) kw**	—
U, =	**11 10 kV kV**	—
200	**-190 v v**	—
R8 =	**90 80 Q**	—
Ugs =	**880 810 v v**	—
I =	**7,6 6,9 A A**	—
I =	**3,1 3,1 A A**	—
Na =	**83,6 69 kW kW**	—
Ng¢ =	**2,7 2,4 w D w**	—
Qa =	**17,6 14 kW kW**	—
Qg =	**1140 1000 w w**	—
n =	**79 79 %**	—
Ra =	**920 930 Q**	—
m =	**100 100 9%**	—

Tube Tinker

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