

Russian directly heated high-power triode for pulsed RF generation and amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	14 V / —	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode

No fixed ratings recorded.

Promoted-field audit performed from English ratings/characteristics; detailed electrical values retained in parameter table.

UMnynbCHbIA reHepaTopHbid Tpuog 'N-426 npeg- The N'N-426 triode is used as a RF power amplifier. Cathode: directly heated, carbonized thoriated tung- E Envelope: metal-ceramic with ring leads of cathode Cooling: forced air.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 Electronintorg

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1968 ELECTRONINTORG

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
power amplifier [1]	426 W	UMnynbCHbIA reHepaTopHbid Tpuog 'N-426 npeg- The N'N-426 triode is used as a RF power amplifier.
power amplifier [2]	426 W	UMnynbCHbIA reHepaTopHbid Tpuog 'N-426 npeg- The N'N-426 triode is used as a RF power amplifier.
grid	1	:1, Kzo-:'cathode; C —grid;
temperature, °C — [1]	60 C	Temneparypa okpyxatower cpeas!, °C Ambient temperature, °C —~60to +55
temperature, °C — [2]	55 C	Temneparypa okpyxatower cpeas!, °C Ambient temperature, °C —~60to +55
voltage (ACorDC), V [1]	14 V	HanpsxxeHnue Hakana (~umm=), B 14 Filament voltage (ACorDC), V 14
voltage (ACorDC), V [2]	14 V	HanpsxxeHnue Hakana (~umm=), B 14 Filament voltage (ACorDC), V 14
voltage [1]	3 kV	ceTku oTpulatensHom 0,3 KB, Hanps>keHum voltage 0.3 kV, excess voltage 1.5kV), A,
voltage [2]	0.3 kV	ceTku oTpulatensHom 0,3 KB, Hanps>keHum voltage 0.3 kV, excess voltage 1.5kV), A,
voltage [3]	1.5 kV	ceTku oTpulatensHom 0,3 KB, Hanps>keHum voltage 0.3 kV, excess voltage 1.5kV), A,
current0 [1]	10 A	(npu HanpsbkeHn aHopa 10 kB, Toke 10kV, anode current0.1 A), V 300-500
current0 [2]	10 A	(npu HanpsbkeHn aHopa 10 kB, Toke 10kV, anode current0.1 A), V 300-500
current0 [3]	1 A	(npu HanpsbkeHn aHopa 10 kB, Toke 10kV, anode current0.1 A), V 300-500

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current0 [4]	300 A	(npv HanpsbkeHn aHopa 10 kB, Toke 10kV, anode current0.1 A),V 300-500
current0 [5]	-500 A	(npv HanpsbkeHn aHopa 10 kB, Toke 10kV, anode current0.1 A),V 300-500
voltage [1]	1 uS	aHopna 0,1ALB 300-500 Mutual conductance (at anode voltage
voltage [2]	300 uS	aHopna 0,1ALB 300-500 Mutual conductance (at anode voltage
voltage [3]	-500 uS	aHopna 0,1ALB 300-500 Mutual conductance (at anode voltage
currents [1]	4 mA	KpyTusHa xapaKkTepycTiiu (Npy HanpspkeHun 4 kV, anode currents 2.5 and 4.5 A), mA/V 70-100
currents [2]	2.5 mA	KpyTusHa xapaKkTepycTiiu (Npy HanpspkeHun 4 kV, anode currents 2.5 and 4.5 A), mA/V 70-100
currents [3]	4.5 mA	KpyTusHa xapaKkTepycTiiu (Npy HanpspkeHun 4 kV, anode currents 2.5 and 4.5 A), mA/V 70-100
currents [4]	70 mA	KpyTusHa xapaKkTepycTiiu (Npy HanpspkeHun 4 kV, anode currents 2.5 and 4.5 A), mA/V 70-100
currents [5]	-100 mA	KpyTusHa xapaKkTepycTiiu (Npy HanpspkeHun 4 kV, anode currents 2.5 and 4.5 A), mA/V 70-100
anode [1]	4	aHopa 4 kB, Tokax aHopa2,5M4,5A),MA/B 70-100 Static amplification factor (at anode
anode [2]	5	aHopa 4 kB, Tokax aHopa2,5M4,5A),MA/B 70-100 Static amplification factor (at anode
anode [3]	5	aHopa 4 kB, Tokax aHopa2,5M4,5A),MA/B 70-100 Static amplification factor (at anode
anode [4]	70	aHopa 4 kB, Tokax aHopa2,5M4,5A),MA/B 70-100 Static amplification factor (at anode
anode [5]	-100	aHopa 4 kB, Tokax aHopa2,5M4,5A),MA/B 70-100 Static amplification factor (at anode
current4 [1]	3 A	KoadhchmuumeHT yeuneHuns ctatuieckni voltages 3 and 4 kV, anode current4.5A) 25-35
current4 [2]	4 A	KoadhchmuumeHT yeuneHuns ctatuieckni voltages 3 and 4 kV, anode current4.5A) 25-35

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current4 [3]	5 A	KoadhchmuumeHT yeuneHuns ctatuieckni voltages 3 and 4 kV, anode current4.5A) 25-35
current4 [4]	25 A	KoadhchmuumeHT yeuneHuns ctatuieckni voltages 3 and 4 kV, anode current4.5A) 25-35
current4 [5]	-35 A	KoadhchmuumeHT yeuneHuns ctatuieckni voltages 3 and 4 kV, anode current4.5A) 25-35
power, MW, atleast [1]	3 W	(npw Hanpsbkenunsax aHoaa 3 u 4 kB, Peak output power, MW, atleast 35
power, MW, atleast [2]	4 W	(npw Hanpsbkenunsax aHoaa 3 u 4 kB, Peak output power, MW, atleast 35
power, MW, atleast [3]	35 W	(npw Hanpsbkenunsax aHoaa 3 u 4 kB, Peak output power, MW, atleast 35
Interelectrode capacitance, pF [1]	5 pF	Toke aHoga45A) 25-35 Interelectrode capacitance, pF:
Interelectrode capacitance, pF [2]	25 pF	Toke aHoga45A) 25-35 Interelectrode capacitance, pF:
Interelectrode capacitance, pF [3]	-35 pF	Toke aHoga45A) 25-35 Interelectrode capacitance, pF:
input [1]	156	MowHocTs BbIXogHas B umnynbce, MBT, input 156—190
input [2]	-190	MowHocTs BbIXogHas B umnynbce, MBT, input 156—190
output,atmost [1]	35	HEMEHBE e v v e i e 35 output,atmost 0L L 4
output,atmost [2]	0	HEMEHBE e v v e i e 35 output,atmost 0L L 4
output,atmost [3]	4	HEMEHBE e v v e i e 35 output,atmost 0L L 4
voltage, kV [1]	3 kV	(amMnnuTygHOe 3HadeHwe), A L L L L L L. 1180 Peak anode voltage, kV
voltage, kV [2]	1180 kV	(amMnnuTygHOe 3HadeHwe), A L L L L L L. 1180 Peak anode voltage, kV
grid [1]	18	QHOZAOM e e 18-10° grid
grid [2]	-10	QHOZAOM e e 18-10° grid
frequency, MHz	800 MHz	CETKOM ot i 800 Operating frequency, MHz

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
pulse duration, us	200 us	Haubonbwasn paboyas yactora, My, ... 200 Maximum pulse duration, us
temperature, °C	180 C	HawmeHbluee BpeMsa rotoBHOTH, C 180 Anode temperature, °C
grid	20	S S e =g=cngdSRR Y grid 20+ e e
anode; a7 [1]	0	—_— anode; a7 0% 0& 12 15 20 e
anode; a7 [2]	0	—_— anode; a7 0% 0& 12 15 20 e
anode; a7 [3]	12	—_— anode; a7 0% 0& 12 15 20 e
anode; a7 [4]	15	—_— anode; a7 0% 0& 12 15 20 e
anode; a7 [5]	20	—_— anode; a7 0% 0& 12 15 20 e

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