

Russian forced-air-cooled metal-ceramic triode for high-power pulsed RF generation and amplification.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM PLATE DISSIPATION	350 W
MAXIMUM GRID DISSIPATION	20 W
MAXIMUM CATHODE CURRENT	15 A
Promoted-field audit performed from English ratings/characteristics; detailed electrical values retained in parameter table.	

MMnynbCHbIA reHepaTopHbii Tpuoa NN-466 npea- The N'M1-46b triode generates and amplifies RF oscil- Kartog — oKCyaHbIA KOCBEHHOpO Hakana. Cathode: indirectly heated, oxide-coated. OchopmneHne — metansokepamm4eckoe ¢ LnuHapu- Envelope: metal-caramic with ring leads of cathode, OxnaxgeHune — BO3AYLUHOE NPUHYAUTENbHOE. 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
heater	7	A - anode; C — grid; KIT— cathode and heater; /7 — heater
temperature, °C [1]	-60 C	Temnepatypa okpyxatowen cpegsI, °C —60—+100 Ambient temperature, °C —60to +100
temperature, °C [2]	100 C	Temnepatypa okpyxatowen cpegsI, °C —60—+100 Ambient temperature, °C —60to +100
temperature, °C [3]	-60 C	Temnepatypa okpyxatowen cpegsI, °C —60—+100 Ambient temperature, °C —60to +100
temperature, °C [4]	100 C	Temnepatypa okpyxatowen cpegsI, °C —60—+100 Ambient temperature, °C —60to +100
voltage (ACorDC), V [1]	126 V	Hanps>xkeHue Hakana (~ umm =), B 12,6 Heater voltage (ACorDC), V 12.6
voltage (ACorDC), V [2]	12.6 V	Hanps>xkeHue Hakana (~ umm =), B 12,6 Heater voltage (ACorDC), V 12.6
voltage (DC), kV	2 kV	Hanpsixenue aHoga (=), kB Anode voltage (DC), kV 2
pulse duration [1]	400 V	HanpsbkeHuu aHoaa 400 B, gnutensHocTun voltage 400 V, pulse duration 2—5 us,
pulse duration [2]	400 V	HanpsbkeHuu aHoaa 400 B, gnutensHocTun voltage 400 V, pulse duration 2—5 us,
pulse duration [3]	2 V	HanpsbkeHuu aHoaa 400 B, gnutensHocTun voltage 400 V, pulse duration 2—5 us,
pulse duration [4]	-5 V	HanpsbkeHuu aHoaa 400 B, gnutensHocTun voltage 400 V, pulse duration 2—5 us,

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage [1]	2 Hz	umMnynbca 2—5 mkc, 4actote 50 My, frequency 50 Hz, grid pulse voltage 400 V),
voltage [2]	-5 Hz	umMnynbca 2—5 mkc, 4actote 50 My, frequency 50 Hz, grid pulse voltage 400 V),
voltage [3]	4 Hz	umMnynbca 2—5 mkc, 4actote 50 My, frequency 50 Hz, grid pulse voltage 400 V),
voltage [4]	50 Hz	umMnynbca 2—5 mkc, 4actote 50 My, frequency 50 Hz, grid pulse voltage 400 V),
voltage [5]	50 Hz	umMnynbca 2—5 mkc, 4actote 50 My, frequency 50 Hz, grid pulse voltage 400 V),
voltage [6]	400 Hz	umMnynbca 2—5 mkc, 4actote 50 My, frequency 50 Hz, grid pulse voltage 400 V),
current	400 A	ceTkn 400B), A, HeMeHee Penetration factor (at anode current
voltage change2 [1]	80 V	MporuLaemocTb (Npy Toke aHoaa 80 MA, 80 mA, anode voltage change200V), % 0.4-0.8
voltage change2 [2]	80 V	MporuLaemocTb (Npy Toke aHoaa 80 MA, 80 mA, anode voltage change200V), % 0.4-0.8
voltage change2 [3]	0 V	MporuLaemocTb (Npy Toke aHoaa 80 MA, 80 mA, anode voltage change200V), % 0.4-0.8
voltage change2 [4]	0.4 V	MporuLaemocTb (Npy Toke aHoaa 80 MA, 80 mA, anode voltage change200V), % 0.4-0.8
voltage change2 [5]	-0.8 V	MporuLaemocTb (Npy Toke aHoaa 80 MA, 80 mA, anode voltage change200V), % 0.4-0.8
power in CW generation mode [1]	200 W	U3MEHEHWUN aHOgHOrO HanpskeHusi 200B), % 0,4-0,8 Output power in CW generation mode
power in CW generation mode [2]	4 W	U3MEHEHWUN aHOgHOrO HanpskeHusi 200B), % 0,4-0,8 Output power in CW generation mode
power in CW generation mode [3]	-8 W	U3MEHEHWUN aHOgHOrO HanpskeHusi 200B), % 0,4-0,8 Output power in CW generation mode
anode	8.5 V	MonesHan MOLWHOCTb B PEXXUME HEMNpepbIBHOW (at heater voltage 8.5 V, anode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current [1]	1.5 mA	reHepauvu (Npu HanpsHXeHUW Hakana voltage 1.5 kV, anode current 350 mA,
current [2]	350 mA	reHepauvu (Npu HanpsHXeHUW Hakana voltage 1.5 kV, anode current 350 mA,
wavelength [1]	85 cm	8,5 B, Hanpsipkenuw m aHoga 1,5 kB, Toke wavelength 29 cm), W, atleast 120
wavelength [2]	15 cm	8,5 B, Hanpsipkenuw m aHoga 1,5 kB, Toke wavelength 29 cm), W, atleast 120
wavelength [3]	29 cm	8,5 B, Hanpsipkenuw m aHoga 1,5 kB, Toke wavelength 29 cm), W, atleast 120
wavelength [4]	120 cm	8,5 B, Hanpsipkenuw m aHoga 1,5 kB, Toke wavelength 29 cm), W, atleast 120
Interelectrode capacitance, pF	120 pF	Br,HemeHee 120 Interelectrode capacitance, pF:
input [1]	100	Bpems rotoBHocTH, C, He Gonee 100 input 14.5-18.5
input [2]	14.5	Bpems rotoBHocTH, C, He Gonee 100 input 14.5-18.5
input [3]	-18.5	Bpems rotoBHocTH, C, He Gonee 100 input 14.5-18.5
voltage (DC),kV	1.9 kV	Hau6onblee HanpsixeHve, KB: Anode voltage (DC),kV 1.9
voltage, kV [1]	19 kV	aHoga (=) 1,9 Peak anode voltage, kV 15
voltage, kV [2]	15 kV	aHoga (=) 1,9 Peak anode voltage, kV 15
Dissipation, W	15 W	aHoO4a B UMMYNBbCE 15 Dissipation, W:
anode e [1]	1	PaccenBaemas Han601bLIAsA MOLWHOCTL, BT anode e 350
anode e [2]	350	PaccenBaemas Han601bLIAsA MOLWHOCTL, BT anode e 350
grid [1]	350	AHOAOM 350 grid 20
grid [2]	20	AHOAOM 350 grid 20
current (DC component), mA	350 mA	CeTKon Anode current (DC component), mA 350
current, A	15 A	Hau6onblumia Tok aHoaa (nocTosHHas Peak anode current, A 15

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
pulse duration, us [1]	15 us	Hawbonslwmi Tok aHoga B uMnynbce, A 15 Maximum pulse duration, us 15
pulse duration, us [2]	15 us	Hawbonslwmi Tok aHoga B uMnynbce, A 15 Maximum pulse duration, us 15
grid circuit, kQ [1]	500 kohm	Hav6onbliasi CKBXXHOCTE 500 Maximum resistance in grid circuit, kQ 10
grid circuit, kQ [2]	10 kohm	Hav6onbliasi CKBXXHOCTE 500 Maximum resistance in grid circuit, kQ 10
Temperature, °C	15 C	Haunbonblias AnuTenbHOCTb UMMYNbCA, MKC 15 Temperature, °C:
voltage, kV o	15 kV	HanpsxeHwe aHopga, kB 1,5 Anode voltage, kV o
Wavelength,em [1]	28 cm	OAvHA BONHBIL, CM 28 Wavelength,em 28
Wavelength,em [2]	28 cm	OAvHA BONHBIL, CM 28 Wavelength,em 28
voltage, kV [1]	10 kV	HanpsbkeHve aHoga B umnynece, kB L 10 Peak anode voltage, kV 10
voltage, kV [2]	10 kV	HanpsbkeHve aHoga B umnynece, kB L 10 Peak anode voltage, kV 10
Wavelength,em oL [1]	28 cm	BnMHABONHBLCM L 28 Wavelength,em oL 28
Wavelength,em oL [2]	28 cm	BnMHABONHBLCM L 28 Wavelength,em oL 28
anode dissipa	0	UCNOMb30BaHUM Jlamn B PEXUME TeHepupoBaHuAa C an oscillator with a high average value of anode dissipa-
Power versus	1 cm	Characteristic Curve Showing Heater Voltage versus Output Power (at wavelength Characteristic Curve of Relative Change of Peak Power versus 1/Duty Factor

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