

ELECTRONIC TUBE REFERENCE

GI411

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Russian metal-ceramic triode for RF generation and amplification, including pulse operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	3200 V
Promoted-field audit performed from English ratings/characteristics; detailed electrical values retained in parameter table.	

The GI-41-1 triode generates and amplifies RF oscillations in high-duty-factor pulsed grounded-grid service. It uses an indirectly heated oxide-coated dispenser cathode and titanium-ceramic envelope.

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
pulsed operation in grounded- [	1	high-duty factor pulsed operation in grounded- [1
heater	11	11— heater
Cathode: indirectly heated, oxide-coated dispenser	4	KaTop — meTtannory64arbii OKCUAHbIA KOCBEHHOTO Ha- Cathode: indirectly heated, oxide-coated dispenser.
temperature, °C [1]	-65 C	Temnepatypa okpyxatowen cpegs, °C — 65+125 Ambient temperature, °C —65t0 +125
temperature, °C [2]	125 C	Temnepatypa okpyxatowen cpegs, °C — 65+125 Ambient temperature, °C —65t0 +125
temperature, °C [3]	-65 C	Temnepatypa okpyxatowen cpegs, °C — 65+125 Ambient temperature, °C —65t0 +125
temperature, °C [4]	125 C	Temnepatypa okpyxatowen cpegs, °C — 65+125 Ambient temperature, °C —65t0 +125
voltage (ACorDC), V [1]	63 V	HanpskeHue Hakana (~wwm =), B 6,3 Heater voltage (ACorDC), V 6.3
voltage (ACorDC), V [2]	6.3 V	HanpskeHue Hakana (~wwm =), B 6,3 Heater voltage (ACorDC), V 6.3
Mutual conductance, mA/V, at least [1]	23 mA/V	KpyTuana xapakrepuctuku, MA/B, He meHee 23 Mutual conductance, mA/V, at least 23
Mutual conductance, mA/V, at least [2]	23 mA/V	KpyTuana xapakrepuctuku, MA/B, He meHee 23 Mutual conductance, mA/V, at least 23
voltage	450 V	KoadbuumeHT yeunexus (npu HanpskeHni Gain coefficient (at anode voltage 450 V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current5 [1]	450 mA	aHopa 450 B v Toke aHoga 50mMA) L L. 60—140 and anode current50 mA) L. 60-140
current5 [2]	50 mA	aHopa 450 B v Toke aHoga 50mMA) L L. 60—140 and anode current50 mA) L. 60-140
current5 [3]	60 mA	aHopa 450 B v Toke aHoga 50mMA) L L. 60—140 and anode current50 mA) L. 60-140
current5 [4]	-140 mA	aHopa 450 B v Toke aHoga 50mMA) L L. 60—140 and anode current50 mA) L. 60-140
current5 [5]	0 mA	aHopa 450 B v Toke aHoga 50mMA) L L. 60—140 and anode current50 mA) L. 60-140
current5 [6]	60 mA	aHopa 450 B v Toke aHoga 50mMA) L L. 60—140 and anode current50 mA) L. 60-140
current5 [7]	-140 mA	aHopa 450 B v Toke aHoga 50mMA) L L. 60—140 and anode current50 mA) L. 60-140
voltage	3.2 kV	Bpewmsi rotoBHOCTW (Npu HanpshkeHun Warm up time (at peak anode voltage 3.2 kV,
current [1]	32 A	aHoga B umnynece 3,2 KB, Toke aHoga peak anode current 2.8 A, 1/duty factor 200,
current [2]	2.8 A	aHoga B umnynece 3,2 KB, Toke aHoga peak anode current 2.8 A, 1/duty factor 200,
current [3]	1 A	aHoga B umnynece 3,2 KB, Toke aHoga peak anode current 2.8 A, 1/duty factor 200,
current [4]	200 A	aHoga B umnynece 3,2 KB, Toke aHoga peak anode current 2.8 A, 1/duty factor 200,
wavelength [1]	28 cm	BuMnynbce 2,8 A, ckBakHOCTH 200, pulse duration 1.5 us, wavelength
wavelength [2]	200 cm	BuMnynbce 2,8 A, ckBakHOCTH 200, pulse duration 1.5 us, wavelength
wavelength [3]	1.5 cm	BuMnynbce 2,8 A, ckBakHOCTH 200, pulse duration 1.5 us, wavelength
voltage [1]	10 W	AnuHe BoNHb! 10cM), c, HeGonee 60 Output power (at peak anode voltage 3.2 kV,
voltage [2]	60 W	AnuHe BoNHb! 10cM), c, HeGonee 60 Output power (at peak anode voltage 3.2 kV,

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage [3]	3.2 W	AnuHe BoNHb! 10cM), c, HeGonee 60 Output power (at peak anode voltage 3.2 kV,
current [1]	2.8 A	MowHOCTL BbIXOAHAS (NMPY HANPSXKEHWUN peak anode current 2.8 A, 1/duty factor 200,
current [2]	1 A	MowHOCTL BbIXOAHAS (NMPY HANPSXKEHWUN peak anode current 2.8 A, 1/duty factor 200,
current [3]	200 A	MowHOCTL BbIXOAHAS (NMPY HANPSXKEHWUN peak anode current 2.8 A, 1/duty factor 200,
wavelength [1]	32 cm	aHopa B umnynece 3,2 kB, Toke aHoga pulse duration 1.5 us, wavelength 10 cm),
wavelength [2]	1.5 cm	aHopa B umnynece 3,2 kB, Toke aHoga pulse duration 1.5 us, wavelength 10 cm),
wavelength [3]	10 cm	aHopa B umnynece 3,2 kB, Toke aHoga pulse duration 1.5 us, wavelength 10 cm),
Interelectrode capacitance, pF	15 pF	ANUTeNbHOCTU MMnynbca 1,5 MKe, gnvHe Interelectrode capacitance, pF:
input [1]	10	BONHbI 10 cMm), KBT, HEMEHEE 1,8 input 6-8
input [2]	18	BONHbI 10 cMm), KBT, HEMEHEE 1,8 input 6-8
input [3]	6	BONHbI 10 cMm), KBT, HEMEHEE 1,8 input 6-8
input [4]	-8	BONHbI 10 cMm), KBT, HEMEHEE 1,8 input 6-8
output oo	0.05	MexanekTpoaHbie eMkoCTH, NdP: output oo 0.05
voltage (ACorDC),V [1]	6 V	Hanpskenue Hakana (~wm =),B 6—6,6 Heater voltage (ACorDC),V 6-6.6
voltage (ACorDC),V [2]	-66 V	Hanpskenue Hakana (~wm =),B 6—6,6 Heater voltage (ACorDC),V 6-6.6
voltage (ACorDC),V [3]	6 V	Hanpskenue Hakana (~wm =),B 6—6,6 Heater voltage (ACorDC),V 6-6.6
voltage (ACorDC),V [4]	-6.6 V	Hanpskenue Hakana (~wm =),B 6—6,6 Heater voltage (ACorDC),V 6-6.6

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage, kV	3.2 kV	Haubonbuwee HanpsixxeHue, KB: Peak anode voltage, kV 3.2
voltage (DC), kV	32 kV	aHOQABUMNYNLCE 3,2 Anode voltage (DC), kV:
cathode keyingmode	2.35	aHopa (=): in cathode keyingmode 2.35
anode [1]	0	cMmewenus, B o o000 200 anode 40
anode [2]	200	cMmewenus, B o o000 200 anode 40
anode [3]	40	cMmewenus, B o o000 200 anode 40
grid	0.8	Pacceuaemast HanbosnblIas MOWHOCTb, BT: grid 0.8
power, W [1]	3 W	aHoAoM (CpegHee 3Ha4YeHue) 40 Peak drive power, W 350
power, W [2]	40 W	aHoAoM (CpegHee 3Ha4YeHue) 40 Peak drive power, W 350
power, W [3]	350 W	aHoAoM (CpegHee 3Ha4YeHue) 40 Peak drive power, W 350
power, kW [1]	3 kW	ceTKoW (cpegHee 3Ha4deHue) 0,8 Minimum output power, kW:
power, kW [2]	8 kW	ceTKoW (cpegHee 3Ha4deHue) 0,8 Minimum output power, kW:
cathode keying [1]	350 cm	Bumnynsce, Bt Lo oo 350 at wavelength 18 cm with cathode keying 2
cathode keying [2]	18 cm	Bumnynsce, Bt Lo oo 350 at wavelength 18 cm with cathode keying 2
cathode keying [3]	2 cm	Bumnynsce, Bt Lo oo 350 at wavelength 18 cm with cathode keying 2
cathode keying [1]	18	Ha ANVHe BONHbI 18 cM npu with cathode keying 2.7
cathode keying [2]	2.7	Ha ANVHe BONHbI 18 cM npu with cathode keying 2.7
pulse duration, us	1.5 us	Haubonblumil TOk aHoa B uMnynbee, A: Maximum pulse duration, us 1.5
Temperature atleads,°C [1]	29 C	NPY aHOOHON MAHUNYMAUMM 2,9 Temperature atleads,°C 200
Temperature atleads,°C [2]	200 C	NPY aHOOHON MAHUNYMAUMM 2,9 Temperature atleads,°C 200

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
frequency [1]	63 Hz	/ H = Y1 JUA U=63V;1 =ϕ1dues; pulse frequency 1,000 Hz;
frequency [2]	1 Hz	/ H = Y1 JUA U=63V;1 =ϕ1dues; pulse frequency 1,000 Hz;
frequency [3]	1 Hz	/ H = Y1 JUA U=63V;1 =ϕ1dues; pulse frequency 1,000 Hz;
frequency [4]	1000 Hz	/ H = Y1 JUA U=63V;1 =ϕ1dues; pulse frequency 1,000 Hz;
grid	3	T 3 X — : _ _ _ anode-grid
frequency [1]	8 Hz	8-t us; pulse frequency 1,000 Hz; ,;
frequency [2]	1000 Hz	8-t us; pulse frequency 1,000 Hz; ,;
grid [1]	7	7 7 ———_ grid - 1 um
grid [2]	7	7 7 ———_ grid - 1 um
grid [3]	1	7 7 ———_ grid - 1 um
Cathode H'j [1]	1	/// 1' T av;ralgsd Dynamic Characteristic Curves at Cathode H'j ; 4// . !
Cathode H'j [2]	4	/// 1' T av;ralgsd Dynamic Characteristic Curves at Cathode H'j ; 4// . !
frequency [1]	4 Hz	/A 4 U,°=us.' :il<l);nr=1.5us;e=200;; ion frequency 1= 1 .
frequency [2]	1.5 Hz	/A 4 U,°=us.' :il<l);nr=1.5us;e=200;; ion frequency 1= 1 .
frequency [3]	200 Hz	/A 4 U,°=us.' :il<l);nr=1.5us;e=200;; ion frequency 1= 1 .
frequency [4]	1 Hz	/A 4 U,°=us.' :il<l);nr=1.5us;e=200;; ion frequency 1= 1 .
frequency [5]	1 Hz	/A 4 U,°=us.' :il<l);nr=1.5us;e=200;; ion frequency 1= 1 .
frequency [1]	6.3 Hz	Uy = 6.3 V; T = 1.5 us; 6 = 200; generation frequency
frequency [2]	1.5 Hz	Uy = 6.3 V; T = 1.5 us; 6 = 200; generation frequency
frequency [3]	6 Hz	Uy = 6.3 V; T = 1.5 us; 6 = 200; generation frequency
frequency [4]	200 Hz	Uy = 6.3 V; T = 1.5 us; 6 = 200; generation frequency



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