

ELECTRONIC TUBE REFERENCE

GI23B

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Russian metal-ceramic high-power triode for pulsed RF generation and amplification in the decimetric wavelength range.

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	14000 V
MAXIMUM PLATE DISSIPATION	300 W
MAXIMUM GRID DISSIPATION	300 W
MAXIMUM CATHODE CURRENT	15 A
Promoted-field completeness audit performed from English ratings/characteristics.	

The GI-23B triode generates and amplifies RF oscillations in pulsed operation with anode modulation in the decimetric wavelength range; it is metal-ceramic and forced-air cooled.

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
temperature, °C	490 C	e e 490 Ambient temperature, °C
voltage (ACor DC), V [1]	126 V	Hanpsbkenve Hakana (~wvim=), B 12,6 Heater voltage (ACor DC), V 12.6
voltage (ACor DC), V [2]	12.6 V	Hanpsbkenve Hakana (~wvim=), B 12,6 Heater voltage (ACor DC), V 12.6
voltage (DC), kV [1]	13 kV	Hanps>xeHne Hakana (noctosHHoe), kB 1,3 Heater voltage (DC), kV 1.3
voltage (DC), kV [2]	1.3 kV	Hanps>xeHne Hakana (noctosHHoe), kB 1,3 Heater voltage (DC), kV 1.3
Mutual conductance, mA/V [1]	26 mA/V	KpyTusHa xapaktepuctuku, MA/B 26- 36 Mutual conductance, mA/V 2636
Mutual conductance, mA/V [2]	-36 mA/V	KpyTusHa xapaktepuctuku, MA/B 26- 36 Mutual conductance, mA/V 2636
Mutual conductance, mA/V [3]	2636 mA/V	KpyTusHa xapaktepuctuku, MA/B 26- 36 Mutual conductance, mA/V 2636
current, yuA,atmost [1]	50 uA	O6paTHbIf TOK CEeTKU, MKA, He bonee 50 Inverse grid current, yuA,atmost 50
current, yuA,atmost [2]	50 uA	O6paTHbIf TOK CEeTKU, MKA, He bonee 50 Inverse grid current, yuA,atmost 50
Penetration factor, % [1]	10	MPoOHMUAEMOCTb, %o .. .o vt 1,0-2,0 Penetration factor, % 1-2
Penetration factor, % [2]	-20	MPoOHMUAEMOCTb, %o .. .o vt 1,0-2,0 Penetration factor, % 1-2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Penetration factor, % [3]	1	MPoOHMUAEMOCTb, %o .. .o vt 1,0-2,0 Penetration factor, % 1-2
Penetration factor, % [4]	-2	MPoOHMUAEMOCTb, %o .. .o vt 1,0-2,0 Penetration factor, % 1-2
voltage	10 W	MoneaHasn MOLLHOCTL B UMMYNbCe (NPU HanpsDKeHUN Peak output power (at peak anode voltage 10 kV,
wavelength at most [1]	10 cm	aHoga B umnynbee 10 kB, Toke aHoga peak anode current 12 A, wavelength at most 28.8 cm,
wavelength at most [2]	12 cm	aHoga B umnynbee 10 kB, Toke aHoga peak anode current 12 A, wavelength at most 28.8 cm,
wavelength at most [3]	28.8 cm	aHoga B umnynbee 10 kB, Toke aHoga peak anode current 12 A, wavelength at most 28.8 cm,
pulse duration [1]	12 us	B umnynece 12 A, gnvHe BoOnHbl He 60nee pulse duration 3—15 us), kW, atleast 40
pulse duration [2]	60 us	B umnynece 12 A, gnvHe BoOnHbl He 60nee pulse duration 3—15 us), kW, atleast 40
pulse duration [3]	3 us	B umnynece 12 A, gnvHe BoOnHbl He 60nee pulse duration 3—15 us), kW, atleast 40
pulse duration [4]	-15 us	B umnynece 12 A, gnvHe BoOnHbl He 60nee pulse duration 3—15 us), kW, atleast 40
pulse duration [5]	40 us	B umnynece 12 A, gnvHe BoOnHbl He 60nee pulse duration 3—15 us), kW, atleast 40
Interelectrode capacitance, pF [1]	288 pF	28,8 cM, gnuTensHOCTY MMNynca 3—15 MKe), Interelectrode capacitance, pF:
Interelectrode capacitance, pF [2]	3 pF	28,8 cM, gnuTensHOCTY MMNynca 3—15 MKe), Interelectrode capacitance, pF:
Interelectrode capacitance, pF [3]	-15 pF	28,8 cM, gnuTensHOCTY MMNynca 3—15 MKe), Interelectrode capacitance, pF:
iNput [1]	40	KBT,HEMEHEE 40 iNput .. 14-18
iNput [2]	14	KBT,HEMEHEE 40 iNput .. 14-18
iNput [3]	-18	KBT,HEMEHEE 40 iNput .. 14-18
voltage (ACorDC),V [1]	119 V	Hanpsibxenne Hakana (~vwnu=),B 11,9-13,3 Heater voltage (ACorDC),V 11.9-13.3
voltage (ACorDC),V [2]	-133 V	Hanpsibxenne Hakana (~vwnu=),B 11,9-13,3 Heater voltage (ACorDC),V 11.9-13.3

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage (ACorDC),V [3]	11.9 V	Hanpsibxenne Hakana (~vwnu=),B 11,9-13,3 Heater voltage (ACorDC),V 11.9-13.3
voltage (ACorDC),V [4]	-13.3 V	Hanpsibxenne Hakana (~vwnu=),B 11,9-13,3 Heater voltage (ACorDC),V 11.9-13.3
voltage, kV [1]	14 kV	... 14 Peak anode voltage, kV 14
voltage, kV [2]	14 kV	... 14 Peak anode voltage, kV 14
dissipation, W	300 W	Pacceusaemasn mowHocTb, BT: Anode dissipation, W 300
dissipation, W	300 W	AHOAOM . . .ttt 300 Grid dissipation, W:
current [1]	6 A	6e3y4eTaTepPMOTOKA o v o v v i e t e 10 Peak anode current
current [2]	10 A	6e3y4eTaTepPMOTOKA o v o v v i e t e 10 Peak anode current
OANTenbHOCTL UMMYNBCA, MKC oo vt [1]	15	OANTenbHOCTL UMMYNBCA, MKC oo vt 15 1/duty factor, atleast 200
OANTenbHOCTL UMMYNBCA, MKC oo vt [2]	1	OANTenbHOCTL UMMYNBCA, MKC oo vt 15 1/duty factor, atleast 200
OANTenbHOCTL UMMYNBCA, MKC oo vt [3]	200	OANTenbHOCTL UMMYNBCA, MKC oo vt 15 1/duty factor, atleast 200
grid circuit, kQ	200 kohm	CKBaXHOCTb, HE MEHEE eieienieannn. 200 Resistance ingrid circuit, kQ
Temperature, °C	10 C	ConpoTuBneHve B Lenv ceTku, KOM 10 Temperature, °C:

TUBE TINKER

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