



ELECTRONIC TUBE REFERENCE

GI21B

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Russian metal-ceramic RF triode for generating and amplifying oscillations in continuous-wave or pulsed operation with anode modulation.

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

SECTION 1 Triode	
MAXIMUM PLATE VOLTAGE	5000 V
<i>Promoted-field completeness audit performed from English ratings/characteristics.</i>	

The GI-21B triode generates and amplifies RF oscillations in continuous-wave or pulsed operation with anode modulation; 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
anode	7	K1 - cathode and heater; /7 — heater; C —grid; A — anode
temperature, °C o oL [1]	980 C	FIMHEIHBI® . . oot e et 980 Ambient temperature, °C o oL —60to +100
temperature, °C o oL [2]	-60 C	FIMHEIHBI® . . oot e et 980 Ambient temperature, °C o oL —60to +100
temperature, °C o oL [3]	100 C	FIMHEIHBI® . . oot e et 980 Ambient temperature, °C o oL —60to +100
voltage, V	126 V	 12,6 Heater voltage, V
voltage	600 uS	KpyTr3Ha xapakTepucTUKY (MPy HANPsDKEHUM aHoaa Mutual conductance (at anode voltage, 600 V,
current [1]	600 mA	600 B, nameHeHum HanpspKeHusi ceTku Ha 0,5 B, grid voltage change +0.5 V, anode current 75 mA),
current [2]	5 mA	600 B, nameHeHum HanpspKeHusi ceTku Ha 0,5 B, grid voltage change +0.5 V, anode current 75 mA),
current [3]	0.5 mA	600 B, nameHeHum HanpspKeHusi ceTku Ha 0,5 B, grid voltage change +0.5 V, anode current 75 mA),
current [4]	75 mA	600 B, nameHeHum HanpspKeHusi ceTku Ha 0,5 B, grid voltage change +0.5 V, anode current 75 mA),
voltage	600 V	MpoHuuaeMocTb (Mpy HAaNPSPKeHUK aHoga Penetration factor (at anode voltage 600 V,
current [1]	600 A	600 B, n3meHeHun HanpsxxeHus aHoaa Ha — 200 B, anode voltage change —200 V, anode current

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current [2]	-200 A	600 B, n3meHeHun HanpsxxeHus aHoaa Ha — 200 B, anode voltage change —200 V, anode current
current [3]	-200 A	600 B, n3meHeHun HanpsxxeHus aHoaa Ha — 200 B, anode voltage change —200 V, anode current
grid	600 V	HanpspkeHue oTcedku (Npu HanpsHKeHnK aHoaa Cutoff voltage (at anode voltage 600 V, grid
output,atmost [1]	6	BbIXOAHasl, He 6onee 0,05 output,atmost 0.05
output,atmost [2]	5	BbIXOAHasl, He 6onee 0,05 output,atmost 0.05
output,atmost [3]	0.05	BbIXOAHasl, He 6onee 0,05 output,atmost 0.05
Bpewms rotoBHOCTH, C, He [1]	6 s	Bpewms rotoBHOCTH, C, He 6onee 60 Warm up time, s,atmost
Bpewms rotoBHOCTH, C, He [2]	60 s	Bpewms rotoBHOCTH, C, He 6onee 60 Warm up time, s,atmost
anode voitage [1]	107 V	npw HanpA>XXeHnax Hakana 10,7 B, at heater voltage 10.7 V, anode voitage
anode voitage [2]	10.7 V	npw HanpA>XXeHnax Hakana 10,7 B, at heater voltage 10.7 V, anode voitage
wavelength [1]	800 cm	aHoga 800 B, toke kaToaa 150 MA, 800 V, cathode current 150 mA, wavelength
wavelength [2]	150 cm	aHoga 800 B, toke kaToaa 150 MA, 800 V, cathode current 150 mA, wavelength
wavelength [3]	800 cm	aHoga 800 B, toke kaToaa 150 MA, 800 V, cathode current 150 mA, wavelength
wavelength [4]	150 cm	aHoga 800 B, toke kaToaa 150 MA, 800 V, cathode current 150 mA, wavelength
pulse duration at	25 s	PEXUME 0,25 peak value (with pulse duration at
Dissipation, W	45 W	He6ONee5SMKC) o 4,5 Dissipation, W:
heating time, s, atleast [1]	60 s	Bpemsa pasorpesa katoga, c, HE MeHee 60 Cathode heating time, s, atleast 60
heating time, s, atleast [2]	60 s	Bpemsa pasorpesa katoga, c, HE MeHee 60 Cathode heating time, s, atleast 60

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
temperature, °C	200 C	Температура, °C: Anode temperature, °C 200
grid, °C [1]	200 C	Анода .о it e e 200 Temperature at leads of cathode and grid, °C ... 140
grid, °C [2]	140 C	Анода .о it e e 200 Temperature at leads of cathode and grid, °C ... 140
grid circuit, kQ, atleast [1]	140 kohm	Ближайшая катодная сетка . . .о v e 140 Resistance in grid circuit, kQ, atleast 10
grid circuit, kQ, atleast [2]	10 kohm	Ближайшая катодная сетка . . .о v e 140 Resistance in grid circuit, kQ, atleast 10

TUBE TINKER

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