

ELECTRONIC TUBE REFERENCE

GI5B

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Power transmitting triode intended for RF amplification, oscillation, or modulation. Manufacturer documentation emphasizes professional transmitter or industrial RF service with substantial plate voltage, current, and output capability.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	2700 V
MAXIMUM PLATE DISSIPATION	6000 W
MAXIMUM GRID DISSIPATION	400 W
Promoted-field audit performed from English ratings/characteristics; detailed electrical values retained in parameter table.	

MmnyneCHeI reHepaTopHbin Tpuog M-5B npepa- The TU-5b triode is used in grounded-grid oscillator Cathode: directly heated, carbonized thoriated tungsten. Envelope: glass-to-metal. Cooling: forced air. K1, K2 - xatop; C — cevxa;

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
grid oscillator [1]	5	MmnyneCHeI reHepaTopHbin Tpuog M-5B npepa- The TU-5b triode is used in grounded-grid oscillator
grid oscillator [2]	5	MmnyneCHeI reHepaTopHbin Tpuog M-5B npepa- The TU-5b triode is used in grounded-grid oscillator
frequency range [1]	6 MHz	pexume caMoBO36Y>KAeHUS NPKU UMNYIbCHON aHO4HON ing in the frequency range 200 MHz.
frequency range [2]	200 MHz	pexume caMoBO36Y>KAeHUS NPKU UMNYIbCHON aHO4HON ing in the frequency range 200 MHz.
anode	180	Diameter: at most 180 mm. A - anode
voltage	1 uS	KpyTiu3Ha xapakTepuKv (npu Mutual conductance (at anode voltage 1 kV.
currents [1]	20 mA	 20-30 anode currents 1and 2 A), mA/V
currents [2]	-30 mA	 20-30 anode currents 1and 2 A), mA/V
currents [3]	1 mA	 20-30 anode currents 1and 2 A), mA/V
currents [4]	2 mA	 20-30 anode currents 1and 2 A), mA/V
voltages [1]	1 kV	Koadhdmuuent yeunenush (npu Gain coefficient (at anode voltages 1 and 2 kV
voltages [2]	2 kV	Koadhdmuuent yeunenush (npu Gain coefficient (at anode voltages 1 and 2 kV
voltage [1]	3 A	Tokanoga (npu U, =3kB),A 0,8-1,5 Anode current (at anode voltage 3 kV), A

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage [2]	8 A	Tokanoga (npu U, =3kB),A 0,8-1,5 Anode current (at anode voltage 3 kV), A
voltage [3]	-15 A	Tokanoga (npu U, =3kB),A 0,8-1,5 Anode current (at anode voltage 3 kV), A
voltage [4]	3 A	Tokanoga (npu U, =3kB),A 0,8-1,5 Anode current (at anode voltage 3 kV), A
Interelectrode capacitance, pF, max	6 pF	MexxanekTpogHoie emkocTu, Nd, He 6onee: Interelectrode capacitance, pF, max.:
input [1]	90	BXOOHAA o 90 input ... 90
input [2]	90	BXOOHAA o 90 input ... 90
output ... L [1]	13	BBIXOAHARA . . . o oi i 13 output ... L 13
output ... L [2]	13	BBIXOAHARA . . . o oi i 13 output ... L 13
power, kW, atleast	200 kW	MouwHOCTb BbixOgHasA B uMnyrsce, kBT, Peak output power, kW, atleast 200
voltage, kV	27 kV	... 27 Peak anode voltage, kV
anode [1]	6	AHOAOM . . . oot 6 anode 6
anode [2]	6	AHOAOM . . . oot 6 anode 6
grid [1]	4	COTKOM .ottt et e et 0,4 grid .. 0.4
grid [2]	0.4	COTKOM .ottt et e et 0,4 grid .. 0.4
frequency, MHz [1]	200 MHz	Pabouaswacrora, My 200 Operating frequency, MHz 200
frequency, MHz [2]	200 MHz	Pabouaswacrora, My 200 Operating frequency, MHz 200
Temperature at envelope	170 C	AHOOA 170 Temperature at envelope,

TUBE TINKER

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and their source documents.

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