ELECTRONIC TUBE REFERENCE

GU66A

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Russian high-power triode for radio-frequency and transmitting service.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	–
NOMINAL HEATER	13.5 V / –	**PARALLEL HEATER**	– / –
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Triode

MAXIMUM PLATE VOLTAGE	10000 V

Promoted-field audit performed from English ratings/characteristics; detailed electrical values retained in parameter table. REDO promoted-field audit completed from English Limit Operating Values / Electrical Parameters tables.

The GU-66A triode is used for power amplification at frequencies up to 30 MHz. It has a directly heated carbonized thoriated-tungsten cathode, metal-ceramic envelope, water-cooled anode, and air-cooled stem.

SOURCE OPERATING CONDITIONS

1968 Electronintorg

SOURCE PDF

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**
power amplification at [1]	**66 W**	FeHepaTopHb Tpuog MY-66A npefHasHa4veH ans The IN'Y-66A triode is used for power amplification at
power amplification at [2]	**66 W**	FeHepaTopHb Tpuog MY-66A npefHasHa4veH ans The IN'Y-66A triode is used for power amplification at
cathode cir [1]	**1**	YCUNEHUst MOWHOCTM Ha 1acToTax go 30 MMy B ctaymo- up to 30 MHz in grounded-grid or grounded-cathode cir-
cathode cir [2]	**30**	YCUNEHUst MOWHOCTM Ha 1acToTax go 30 MMy B ctaymo- up to 30 MHz in grounded-grid or grounded-cathode cir-
cathode cir [3]	**30**	YCUNEHUst MOWHOCTM Ha 1acToTax go 30 MMy B ctaymo- up to 30 MHz in grounded-grid or grounded-cathode cir-
anode, air for stem). I	**1011**	Cooling: forced (water for anode, air for stem). I 1011 NOBEPXHOCTH
grid	**420**	Height: at most 420 mm. K1, K2 — cathode; C — grid;
temperature,°C [1]	**-10 C**	TemnepaTypa okpyxaiowen cpegbl, °C ... . -10-+55 Ambient temperature,°C . ..... —10to +55
temperature,°C [2]	**55 C**	TemnepaTypa okpyxaiowen cpegbl, °C ... . -10-+55 Ambient temperature,°C . ..... —10to +55
temperature,°C [3]	**-10 C**	TemnepaTypa okpyxaiowen cpegbl, °C ... . -10-+55 Ambient temperature,°C . ..... —10to +55
temperature,°C [4]	**55 C**	TemnepaTypa okpyxaiowen cpegbl, °C ... . -10-+55 Ambient temperature,°C . ..... —10to +55

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage (ACorDC),V [1]	**135 V**	Hanpskenue Hakana (~vwm =),B ..... 13,5 Filament voltage (ACorDC),V 13.5
voltage (ACorDC),V [2]	**13.5 V**	Hanpskenue Hakana (~vwm =),B ..... 13,5 Filament voltage (ACorDC),V 13.5
voltage [1]	**3 kV**	Hanpsxkenue 3anupaHus, oTpyuuaTensHoe, Negative cutoff voltage (at anode voltage 10 kV,
voltage [2]	**10 kV**	Hanpsxkenue 3anupaHus, oTpyuuaTensHoe, Negative cutoff voltage (at anode voltage 10 kV,
current [1]	**10 A**	(npu HanpsixxeHWn aHoga 10 kB, Toke aHoaa anode current 0.1 A), absolute value,
current [2]	**100 mA**	(npu HanpsixxeHWn aHoga 10 kB, Toke aHoaa anode current 0.1 A), absolute value,
voltage [1]	**300 uS**	HebOMee .....c..ciiiiiiiiiiiiinn 300 Mutual conductance (at anode voltage 2 kV,
voltage [2]	**2 uS**	HebOMee .....c..ciiiiiiiiiiiiinn 300 Mutual conductance (at anode voltage 2 kV,
currents [1]	**6 mA**	KpyTu3sHna xapakTepucTuku (Npu HANps>KeHUn anode currents 6 and 12 A), mA/V 95-125
currents [2]	**12 mA**	KpyTu3sHna xapakTepucTuku (Npu HANps>KeHUn anode currents 6 and 12 A), mA/V 95-125
currents [3]	**95 mA**	KpyTu3sHna xapakTepucTuku (Npu HANps>KeHUn anode currents 6 and 12 A), mA/V 95-125
currents [4]	**-125 mA**	KpyTu3sHna xapakTepucTuku (Npu HANps>KeHUn anode currents 6 and 12 A), mA/V 95-125
voltage [1]	**95 kV**	. ... 95-125 Gain coefficient (at anode voltage 4 kV,
voltage [2]	**-125 kV**	. ... 95-125 Gain coefficient (at anode voltage 4 kV,
voltage [3]	**4 kV**	. ... 95-125 Gain coefficient (at anode voltage 4 kV,
voltage [1]	**4 kW**	4 kB, Toke aHOga8A) ... 39-53 Output power (at anode voltage 10 kV), kW, at least 100
voltage [2]	**39 kW**	4 kB, Toke aHOga8A) ... 39-53 Output power (at anode voltage 10 kV), kW, at least 100
voltage [3]	**-53 kW**	4 kB, Toke aHOga8A) ... 39-53 Output power (at anode voltage 10 kV), kW, at least 100

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage [4]	**10 kW**	4 kB, Toke aHOga8A) ... 39-53 Output power (at anode voltage 10 kV), kW, at least 100
voltage [5]	**100 kW**	4 kB, Toke aHOga8A) ... 39-53 Output power (at anode voltage 10 kV), kW, at least 100
input,atmost [1]	**10**	10kB), kBT, HeMeHeE ... ... 100 input,atmost .....
input,atmost [2]	**100**	10kB), kBT, HeMeHeE ... ... 100 input,atmost .....
output,atmost	**6**	Me>xanekTpogHbie emkocTu, NP, He 6onee: output,atmost .....
voltage (ACorDC),V	**14 V**	Hanbonslwee Hanps>keHue Hakana (~ uam =), B . .. Maximum filament voltage (ACorDC),V 14
voltage (DC), kV	**10 kV**	Hawbonblwee HanpsixeHue, KB: Anode voltage (DC), kV 10

Tube Tinker

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