



ELECTRONIC TUBE REFERENCE

GU66P

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Evaporation-cooled metal-ceramic power triode for RF amplification to approximately 30 MHz. It uses a carbonized thoriated-tungsten cathode and provides roughly 60 kW plate dissipation with plate ratings to 10 kV.

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

SECTION 1 Triode	
MAXIMUM PLATE VOLTAGE	10000 V
MAXIMUM PLATE DISSIPATION	60000 W
MAXIMUM GRID DISSIPATION	1300 W
<i>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.</i>	

The GU-66P triode is used for power amplification at frequencies up to 30 MHz. It has a directly heated carbonized thoriated-tungsten cathode and metal-ceramic envelope, with evaporative anode cooling and forced air for other parts.

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
power amplification at [1]	6611 W	FeHepaTopHbin Tpuoa MNY-6611 npegHasHadeH ans The I'Y-66I1 triode is used for power amplification at
power amplification at [2]	66 W	FeHepaTopHbin Tpuoa MNY-6611 npegHasHadeH ans The I'Y-66I1 triode is used for power amplification at
cathode cir [1]	30	YCUneHnsi MOLWHOCTK Ha YacTtoTax go 30 My e ctayuo- up to 30 MHz in grounded-grid or grounded-cathode cir-
cathode cir [2]	30	YCUneHnsi MOLWHOCTK Ha YacTtoTax go 30 My e ctayuo- up to 30 MHz in grounded-grid or grounded-cathode cir-
anode	25	Mass: at most 25 kg. A-anode;
temperature, °C [1]	-10 C	Ambient temperature, °C —10to +55
temperature, °C [2]	55 C	Ambient temperature, °C —10to +55
voltage (AC or DC), V [1]	135 V	Hanps>xeHnue Hakana (~wm =),B 13,5 Filament voltage (AC or DC), V 13.5
voltage (AC or DC), V [2]	13.5 V	Hanps>xeHnue Hakana (~wm =),B 13,5 Filament voltage (AC or DC), V 13.5
voltage	3 V	Hanps>xeHue 3anmpaxus oTpuuaTensHoe, Negative cutoff voltage (at anode voltage
current [1]	3 A	abconoTHOE 3HayYeHne (MPW HanpPsPKeHUN 10kV, anode current 0.1 A), absolute value,
current [2]	10 A	abconoTHOE 3HayYeHne (MPW HanpPsPKeHUN 10kV, anode current 0.1 A), absolute value,

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current [3]	100 mA	abconoTHOE 3HayYeHne (MPW HanpPsPKeHUN 10kV, anode current 0.1 A), absolute value,
voltage [1]	6 uS	He 6onee 300 Mutual conductance (at anode voltage 2 kV,
voltage [2]	300 uS	He 6onee 300 Mutual conductance (at anode voltage 2 kV,
voltage [3]	2 uS	He 6onee 300 Mutual conductance (at anode voltage 2 kV,
currents [1]	6 mA	KpyTusHa xapakTepucTiku (npu Hanpsi- anode currents 6 and 12 A), mA/V 95-125
currents [2]	12 mA	KpyTusHa xapakTepucTiku (npu Hanpsi- anode currents 6 and 12 A), mA/V 95-125
currents [3]	95 mA	KpyTusHa xapakTepucTiku (npu Hanpsi- anode currents 6 and 12 A), mA/V 95-125
currents [4]	-125 mA	KpyTusHa xapakTepucTiku (npu Hanpsi- anode currents 6 and 12 A), mA/V 95-125
voltage [1]	2 kV	>XeHun aHoga 2 kB, Tokax aHoga 6 v Gain coefficient (at anode voltage 4 kV,
voltage [2]	6 kV	>XeHun aHoga 2 kB, Tokax aHoga 6 v Gain coefficient (at anode voltage 4 kV,
voltage [3]	4 kV	>XeHun aHoga 2 kB, Tokax aHoga 6 v Gain coefficient (at anode voltage 4 kV,
current [1]	12 mA	12AMAB 95-125 anode current 8 A) 39-53
current [2]	95 mA	12AMAB 95-125 anode current 8 A) 39-53
current [3]	-125 mA	12AMAB 95-125 anode current 8 A) 39-53
current [4]	8 mA	12AMAB 95-125 anode current 8 A) 39-53
current [5]	39 mA	12AMAB 95-125 anode current 8 A) 39-53
current [6]	-53 mA	12AMAB 95-125 anode current 8 A) 39-53
voltage	10 W	KoachdnuneHT ycunenys (Npun HanpspkeHun aHoga Output power (at anode voltage 10kV),
input,atmost il [1]	10	anona 10 kB), KBT, He MeHee 100 input,atmost il 160
input,atmost il [2]	100	anona 10 kB), KBT, He MeHee 100 input,atmost il 160
input,atmost il [3]	160	anona 10 kB), KBT, He MeHee 100 input,atmost il 160
output,atmost	6	MexxanekTpoaHblie eMkocTy, nd, He 6onee: output,atmost

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage (ACorDC), V [1]	14 V	Haubonsuiee HanpsixkeHue Hakana (~ unv =),B ... 14 Filament voltage (ACorDC), V 14
voltage (ACorDC), V [2]	14 V	Haubonsuiee HanpsixkeHue Hakana (~ unv =),B ... 14 Filament voltage (ACorDC), V 14
current, A [1]	360 A	Haubonbluiz nycKoBoOW TOK Hakana, A 360 Filament starting current, A 360
current, A [2]	360 A	Haubonbluiz nycKoBoOW TOK Hakana, A 360 Filament starting current, A 360
voltage (DC), kV	10 kV	Haubonbluee Hanps»keHue, kB: Anode voltage (DC), kV 10
voltage (instantaneous value), absolute	10 V	BHOAA (=) « oo i 10 Cutoff voltage (instantaneous value), absolute
Dissipation, kW [1]	110 kW	110 a6CONIOTHOW BENNYMHE) oounn.. -15 Dissipation, kW:
Dissipation, kW [2]	-15 kW	110 a6CONIOTHOW BENNYMHE) oounn.. -15 Dissipation, kW:
anode	60	Hau6onbwas paccensaemast MOWHOCTb, KBT: anode 60
grid [1]	60	T.Y O 60 grid 1.3
grid [2]	1.3	T.Y O 60 grid 1.3
frequency, MHz [1]	13 MHz	COTKOM o\t it ettt en s 1,3 Operating frequency, MHz 30
frequency, MHz [2]	30 MHz	COTKOM o\t it ettt en s 1,3 Operating frequency, MHz 30
Temperature at stem and metal-to-ceramic	30 C	Haunbonbwas paboyas yactota, My 30 Temperature at stem and metal-to-ceramic

TUBE TINKER

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