

Russian titanium-ceramic oscillator triode using pulsed anode and grid keying in centimetric and decimetric wavelength ranges.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	3000 V
Promoted-field completeness audit performed from English ratings/characteristics.	

The GI-25 triode is used as an oscillator with pulsed anode and grid keying in centimetric and decimetric wavelength ranges and uses titanium-ceramic construction.

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
WUmnynbCHbIM reHepatopHbin Tpuog FN [1]	25	WUmnynbCHbIM reHepatopHbin Tpuog FN-25 npepg- The 'N-25 triode is used as an oscillator with puised
WUmnynbCHbIM reHepatopHbin Tpuog FN [2]	25	WUmnynbCHbIM reHepatopHbin Tpuog FN-25 npepg- The 'N-25 triode is used as an oscillator with puised
anode [1]	490	Multiple impacts with acceleration, m/s? 490 Kn - cathode and heater; /7 - heater; C — grid; A — anode
anode [2]	7	Multiple impacts with acceleration, m/s? 490 Kn - cathode and heater; /7 - heater; C — grid; A — anode
temperature, °C [1]	-60 C	Ambient temperature, °C —60to +100
temperature, °C [2]	100 C	Ambient temperature, °C —60to +100
voltage, V	63 V	 6,3 Heater voltage, V
voltage	250 uS	KpyTu3Ha xapakTepucTukn (Npy HanNpsi>kKeHun Mutual conductance (at anode voltage 250 V,
current [1]	250 A	aHofa 250 B, nsmeHeHuv HanpskerHusi Ha ceTke grid voltage change —1 V, anode current
current [2]	-1 A	aHofa 250 B, nsmeHeHuv HanpskerHusi Ha ceTke grid voltage change —1 V, anode current
current [1]	250 mA	CeTKM Npu HanpshxeHun aHoaa 250 B, Toke voltage 250 V, anode current 30 mA), V. 1.0-4.5
current [2]	250 mA	CeTKM Npu HanpshxeHun aHoaa 250 B, Toke voltage 250 V, anode current 30 mA), V. 1.0-4.5

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current [3]	30 mA	CeTKM Npu HanpshxeHun aHoaa 250 B, Toke voltage 250 V, anode current 30 mA), V. 1.0-4.5
current [4]	1 mA	CeTKM Npu HanpshxeHun aHoaa 250 B, Toke voltage 250 V, anode current 30 mA), V. 1.0-4.5
current [5]	-4.5 mA	CeTKM Npu HanpshxeHun aHoaa 250 B, Toke voltage 250 V, anode current 30 mA), V. 1.0-4.5
voltage [1]	0 V	aHoga30mA),B 1,0-4,5 Negative cutoff voltage (at anode voltage 250V,
voltage [2]	10 V	aHoga30mA),B 1,0-4,5 Negative cutoff voltage (at anode voltage 250V,
voltage [3]	-45 V	aHoga30mA),B 1,0-4,5 Negative cutoff voltage (at anode voltage 250V,
voltage [4]	250 V	aHoga30mA),B 1,0-4,5 Negative cutoff voltage (at anode voltage 250V,
current	200 mA	HanpskeHne oTceukun oTpulaTesisHoe (npu anode current 200 mA), V,atleast
Interelectrode capacitance, pF [1]	250 pF	HanpsbkeHun aHoga 250 B, Toke aHoaa 200 mA), Interelectrode capacitance, pF:
Interelectrode capacitance, pF [2]	200 pF	HanpsbkeHun aHoga 250 B, Toke aHoaa 200 mA), Interelectrode capacitance, pF:
input [1]	10	B,HEMEHEE 10 input 3.5-55
input [2]	3.5	B,HEMEHEE 10 input 3.5-55
input [3]	-55	B,HEMEHEE 10 input 3.5-55
pulse [1]	16 W	it i e 1,6-2,3 Peak output power (at pulse 1/duty factor 1,000,
pulse [2]	-23 W	it i e 1,6-2,3 Peak output power (at pulse 1/duty factor 1,000,
pulse [3]	1 W	it i e 1,6-2,3 Peak output power (at pulse 1/duty factor 1,000,
pulse [4]	1000 W	it i e 1,6-2,3 Peak output power (at pulse 1/duty factor 1,000,
voltage [1]	6 V	Bpewms rotoBHoCcTH, C, HE 6ONEE 45 pulse duration 1us, peak anode voltage
voltage [2]	45 V	Bpewms rotoBHoCcTH, C, HE 6ONEE 45 pulse duration 1us, peak anode voltage
voltage [3]	1 V	Bpewms rotoBHoCcTH, C, HE 6ONEE 45 pulse duration 1us, peak anode voltage

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
wavelength [1]	2.8 cm	MolyHocTb BbixoAHas B UMnynce, BT, He MeHee: 2.8kV, peak anode current 2.5 A, wavelength
wavelength [2]	2.5 cm	MolyHocTb BbixoAHas B UMnynce, BT, He MeHee: 2.8kV, peak anode current 2.5 A, wavelength
power over [1]	1 W	uMnynbca 1 MKC, HanpsHkeHWn aHoga B Peak output power over 1,000 h of service, W,
power over [2]	1000 W	uMnynbca 1 MKC, HanpsHkeHWn aHoga B Peak output power over 1,000 h of service, W,
pulse duration at	13 s	MAHUMYPIALMM oo e ete e 1,3 peak value (with pulse duration at
grid keyingmode, V [1]	-120 V	Hanpsbkenue ceTkmBumnynece, B — 120-0 Grid voltage in pulsed grid keyingmode, V —80to0
grid keyingmode, V [2]	0 V	Hanpsbkenue ceTkmBumnynece, B — 120-0 Grid voltage in pulsed grid keyingmode, V —80to0
grid keyingmode, V [3]	-80 V	Hanpsbkenue ceTkmBumnynece, B — 120-0 Grid voltage in pulsed grid keyingmode, V —80to0
pulsed operation	12	MOy NUpYLoLero umnynsca (npu ero anode in pulsed operation 12
grid [1]	6	AnuTensHOCTU He 6onee 0,2MKe), %o 20 grid .. 0.25
grid [2]	2	AnuTensHOCTU He 6onee 0,2MKe), %o 20 grid .. 0.25
grid [3]	20	AnuTensHOCTU He 6onee 0,2MKe), %o 20 grid .. 0.25
grid [4]	0.25	AnuTensHOCTU He 6onee 0,2MKe), %o 20 grid .. 0.25
Pulse [1]	1	1 (o 7 0,25 Pulse 1/duty factor, atleast 800
Pulse [2]	7	1 (o 7 0,25 Pulse 1/duty factor, atleast 800
Pulse [3]	25	1 (o 7 0,25 Pulse 1/duty factor, atleast 800
Pulse [4]	1	1 (o 7 0,25 Pulse 1/duty factor, atleast 800
Pulse [5]	800	1 (o 7 0,25 Pulse 1/duty factor, atleast 800

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
heatingtime,s	60 s	[nvHa BonHbI (NpY aHOZHOM MOZYNALMM), Cathode heatingtime,s 60
temperature,°C [1]	55 C	v ieieeenennanannnnns 5,5 Envelope temperature,°C 200
temperature,°C [2]	200 C	v ieieeenennanannnnns 5,5 Envelope temperature,°C 200
frequency [1]	6.3 Hz	Uy = 6.3 V; T =1 us; pulse frequency 1,000 imp/s; Uy = 6.3 V; 1 =1 us; pulse frequency 1,000 imp/s;
frequency [2]	1 Hz	Uy = 6.3 V; T =1 us; pulse frequency 1,000 imp/s; Uy = 6.3 V; 1 =1 us; pulse frequency 1,000 imp/s;
frequency [3]	1000 Hz	Uy = 6.3 V; T =1 us; pulse frequency 1,000 imp/s; Uy = 6.3 V; 1 =1 us; pulse frequency 1,000 imp/s;
frequency [4]	6.3 Hz	Uy = 6.3 V; T =1 us; pulse frequency 1,000 imp/s; Uy = 6.3 V; 1 =1 us; pulse frequency 1,000 imp/s;
frequency [5]	1 Hz	Uy = 6.3 V; T =1 us; pulse frequency 1,000 imp/s; Uy = 6.3 V; 1 =1 us; pulse frequency 1,000 imp/s;
frequency [6]	1 Hz	Uy = 6.3 V; T =1 us; pulse frequency 1,000 imp/s; Uy = 6.3 V; 1 =1 us; pulse frequency 1,000 imp/s;
frequency [7]	1000 Hz	Uy = 6.3 V; T =1 us; pulse frequency 1,000 imp/s; Uy = 6.3 V; 1 =1 us; pulse frequency 1,000 imp/s;

TUBE TINKER

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