

ELECTRONIC TUBE REFERENCE

GI6B

Specialized - Microwave Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Russian forced-air-cooled metal-ceramic microwave triode for oscillator circuits 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

SECTION1 Triode
No fixed ratings recorded.
Promoted-field audit performed from English ratings/characteristics; detailed electrical values retained in parameter table.

MMNynbCHBI CBEPXBLICOKOMACTOTHbLIA TPUOA The M'N-6B microwave triode is used in oscillator cir- Cathode: indirectly heated, oxide-coated. 4 Envelope: metal-ceramic. Cooling: forced air. % [z

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
MMNynbCHBI CBEPXB LICOKOMACTOTHbLIA TPUOA The M'N	6	MMNynbCHBI CBEPXB LICOKOMACTOTHbLIA TPUOA The M'N-6B microwave triode is used in oscillator cir-
anode modulation in the [1]	6	B reHepartopax 6e3 BHewHen 06paTHOW CBA3N B Henpe- wave or pulsed operation with anode modulation in the
anode modulation in the [2]	6	B reHepartopax 6e3 BHewHen 06paTHOW CBA3N B Henpe- wave or pulsed operation with anode modulation in the
Cathode: indirectly heated, oxide-coated	4	Cathode: indirectly heated, oxide-coated. 4
temperature, °C L ~ [1]	343 C	MICE 343 Ambient temperature, °C L ~-60to +100
temperature, °C L ~ [2]	-60 C	MICE 343 Ambient temperature, °C L ~-60to +100
temperature, °C L ~ [3]	100 C	MICE 343 Ambient temperature, °C L ~-60to +100
voltage	1.3 uS	KpyTuana xapakTepucTuku (Mpu HANPSXKeHUU Mutual conductance (at anode voltage 1.3 kV.
current [1]	13 mA	anoga 1,3 kB, MameHeHUn HanpsHKeHns CeTKK grid voltage change 1 V. anode current 150 mA),
current [2]	1 mA	anoga 1,3 kB, MameHeHUn HanpsHKeHns CeTKK grid voltage change 1 V. anode current 150 mA),
current [3]	150 mA	anoga 1,3 kB, MameHeHUn HanpsHKeHns CeTKK grid voltage change 1 V. anode current 150 mA),

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage [1]	1.3 kV	MpoHuuyaemocTs (npy Hanps>keHun aHoaa 1.3 kB. Penetration factor (at anode voltage 1.3kV.
voltage [2]	1 kV	MpoHuuyaemocTs (npy Hanps>keHun aHoaa 1.3 kB. Penetration factor (at anode voltage 1.3kV.
voltage [3]	3 kV	MpoHuuyaemocTs (npy Hanps>keHun aHoaa 1.3 kB. Penetration factor (at anode voltage 1.3kV.
current [1]	200 A	VU3MeHeHWn HanpshkeHust aHoga 200 B, anode voltage change 200 V. anode current
current [2]	200 A	VU3MeHeHWn HanpshkeHust aHoga 200 B, anode voltage change 200 V. anode current
input [1]	10	BXOOHAS ..oot i et 10-12,7 input
input [2]	-127	BXOOHAS ..oot i et 10-12,7 input
output [1]	0.2	BBIXOAHAS ..oot 0.2-0.3 output
output [2]	-0.3	BBIXOAHAS ..oot 0.2-0.3 output
voltage [1]	8 kV	8 HEMPEePLIBHOM peXxume paboThbl Npu in CW operation at anode voltage 1.35kV,
voltage [2]	1.35 kV	8 HEMPEePLIBHOM peXxume paboThbl Npu in CW operation at anode voltage 1.35kV,
wavelength [1]	135 cm	Hanpsbkerun aHoaa 1,35 kB, Toke aHoaa 250 MA, anode current 250 mA, wavelength 52 cm,
wavelength [2]	250 cm	Hanpsbkerun aHoaa 1,35 kB, Toke aHoaa 250 MA, anode current 250 mA, wavelength 52 cm,
wavelength [3]	250 cm	Hanpsbkerun aHoaa 1,35 kB, Toke aHoaa 250 MA, anode current 250 mA, wavelength 52 cm,
wavelength [4]	52 cm	Hanpsbkerun aHoaa 1,35 kB, Toke aHoaa 250 MA, anode current 250 mA, wavelength 52 cm,
voltage, V	4 V	(Npy 4ANUTENBEHOCTY MMNYNbCa He bonee Grid voltage, V:
current	3 A	MMKOB0E 3HA4EHNE B UMNYNBCHOM PeXumMe (npu Cathode current:
Dissipation, W	3 W	MFHOBEHHOE 3HaYEeHNE B PeXUMe Dissipation, W:
anode ...R [1]	6	knacca B 6e3 mogynayum, A 1.25 anode ...R 350
anode ...R [2]	1.25	knacca B 6e3 mogynayum, A 1.25 anode ...R 350

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
anode ...R [3]	350	knacca B 6e3 mogynayum, A 1.25 anode ...R 350
Wavelength, cm	6 cm	6e3 y4eTATEPMOTOKAot Wavelength, cm:
anode heatsink e	160	BHAYEHUE . . . anode heatsink e 160
grid lead	200	Temnepatypa, °C: grid lead 200
grid circuit, k()	100 ohm	BbIBOAA KaTtoda 100 Resistance in grid circuit, k()
Pulse-Operation Characteristic Curves: [1]	20	20 Averaged Pulse-Operation Characteristic Curves: 20
Pulse-Operation Characteristic Curves: [2]	20	20 Averaged Pulse-Operation Characteristic Curves: 20
frequency [1]	126 Hz	«, @ Ui=126 v; :'/3; —200 V; Timp = 1 u8; frequency 1,000 imp/s; Un= Jkp 7
frequency [2]	3 Hz	«, @ Ui=126 v; :'/3; —200 V; Timp = 1 u8; frequency 1,000 imp/s; Un= Jkp 7
frequency [3]	-200 Hz	«, @ Ui=126 v; :'/3; —200 V; Timp = 1 u8; frequency 1,000 imp/s; Un= Jkp 7
frequency [4]	1 Hz	«, @ Ui=126 v; :'/3; —200 V; Timp = 1 u8; frequency 1,000 imp/s; Un= Jkp 7
frequency [5]	1000 Hz	«, @ Ui=126 v; :'/3; —200 V; Timp = 1 u8; frequency 1,000 imp/s; Un= Jkp 7
frequency [6]	7 Hz	«, @ Ui=126 v; :'/3; —200 V; Timp = 1 u8; frequency 1,000 imp/s; Un= Jkp 7
grid-al;ode [1]	18	18 J O T L grid-al;ode —18 ;' é';'——
grid-al;ode [2]	-18	18 J O T L grid-al;ode —18 ;' é';'——
Pulse-Operation Characteristic Curves [1]	2	? A san=FIEAR Averaged Pulse-Operation Characteristic Curves: 2 01
Pulse-Operation Characteristic Curves [2]	1	? A san=FIEAR Averaged Pulse-Operation Characteristic Curves: 2 01
frequency [1]	11 Hz	B,_ = :: g 11 Uy=126V; n.,.,d= 1 %s; frequency 1,000 imp's; — 7 i
frequency [2]	126 Hz	B,_ = :: g 11 Uy=126V; n.,.,d= 1 %s; frequency 1,000 imp's; — 7 i
frequency [3]	1 Hz	B,_ = :: g 11 Uy=126V; n.,.,d= 1 %s; frequency 1,000 imp's; — 7 i
frequency [4]	1000 Hz	B,_ = :: g 11 Uy=126V; n.,.,d= 1 %s; frequency 1,000 imp's; — 7 i

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
frequency [5]	7 Hz	$B_{-} = :: g_{11} U_y = 126V$; $n_{-}, d = 1 \%$; frequency 1,000 imp's; — 7 i
Anode Characteristic Curves [1]	12	$U_{-} = 12; "3; ": :_{-} 25 \text{ oM}$; e or ik : Averaged Anode Characteristic Curves
Anode Characteristic Curves [2]	3	$U_{-} = 12; "3; ": :_{-} 25 \text{ oM}$; e or ik : Averaged Anode Characteristic Curves
Anode Characteristic Curves [3]	25	$U_{-} = 12; "3; ": :_{-} 25 \text{ oM}$; e or ik : Averaged Anode Characteristic Curves
Grid Characteristic Curves " [1]	0	0 Averaged Anode-Grid Characteristic Curves "30 40 30 _; 0 '70 = 7
Grid Characteristic Curves " [2]	30	0 Averaged Anode-Grid Characteristic Curves "30 40 30 _; 0 '70 = 7
Grid Characteristic Curves " [3]	40	0 Averaged Anode-Grid Characteristic Curves "30 40 30 _; 0 '70 = 7
Grid Characteristic Curves " [4]	30	0 Averaged Anode-Grid Characteristic Curves "30 40 30 _; 0 '70 = 7
Grid Characteristic Curves " [5]	0	0 Averaged Anode-Grid Characteristic Curves "30 40 30 _; 0 '70 = 7
Grid Characteristic Curves " [6]	70	0 Averaged Anode-Grid Characteristic Curves "30 40 30 _; 0 '70 = 7
Grid Characteristic Curves " [7]	7	0 Averaged Anode-Grid Characteristic Curves "30 40 30 _; 0 '70 = 7

TUBE TINKER

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