

UV12

Russian Tube

Application as hf power amplifier

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Waveguide 4x23mm
Envelope	Glass with focusing system in metal envelope
Mass	850g
Cooling method	Natural
Frequency range	3.6 cm
Frequency range Minimum	3.1 cm
Frequency range Maximum	4.1 cm
Gain	30db
Filament voltage, v	6.6
Filament current, a	0.4
Filament current, a Minimum	0.3
Filament current, a Maximum	0.5
Slow-wave circuit voltage, v	675
Slow-wave circuit voltage, v Minimum	600
Slow-wave circuit voltage, v Maximum	750
External loading agreement coefficient	1.7
Noise coefficient	400kTo

UV13

Russian Tube

Application as low-noise hf amplifier

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Waveguide
Envelope	Glass
Mass	60g
Cooling method	Forced air
Frequency range	3900 MHz
Frequency range Minimum	3400 MHz
Frequency range Maximum	4400 MHz
Gain	20dB
Filament voltage, v	2.5
Filament voltage, v Minimum	2
Filament voltage, v Maximum	3
Filament current, a	0.75
Filament current, a Minimum	0.5
Filament current, a Maximum	1
First anode voltage, v	92.5
First anode voltage, v Minimum	5
First anode voltage, v Maximum	180
Slow-wave circuit voltage, v	590
Slow-wave circuit voltage, v Minimum	540
Slow-wave circuit voltage, v Maximum	640
Control electrode voltage, v	15
Collector voltage, v	800
External loading agreement coefficient	1.8
Noise coefficient	8

UV131

Russian Tube

Application as low-noise hf amplifier

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Waveguide
Envelope	Glass
Mass	55g
Cooling method	Forced air
Frequency range	3900 MHz
Frequency range Minimum	3400 MHz
Frequency range Maximum	4400 MHz
Gain	20dB
Filament voltage, v	2.5
Filament voltage, v Minimum	2
Filament voltage, v Maximum	3
Filament current, a	0.75
Filament current, a Minimum	0.5
Filament current, a Maximum	1
First anode voltage, v	92.5
First anode voltage, v Minimum	5
First anode voltage, v Maximum	180
Slow-wave circuit voltage, v	590
Slow-wave circuit voltage, v Minimum	540
Slow-wave circuit voltage, v Maximum	640
Control electrode voltage, v	15
Collector voltage, v	800
External loading agreement coefficient	1.8
Noise coefficient	8

UV14

Russian Tube

Uhf amplification in intermediate stage

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Waveguide 10x61mm
Envelope	Glass with permanent magnet focusing system in metal envelope
Mass	2.5kg
Cooling method	Natural
Frequency range	3700 MHz
Frequency range Minimum	3400 MHz
Frequency range Maximum	4000 MHz
Output power	60 mW
Output power Minimum	40 mW
Output power Maximum	80 mW
Gain	32.5 dB
Gain Minimum	30 dB
Gain Maximum	35 dB
Filament voltage, v	6.3
Filament current, a	0.375
Filament current, a Minimum	0.3
Filament current, a Maximum	0.45
First anode voltage, v	200
First anode voltage, v Minimum	150
First anode voltage, v Maximum	250
Slow-wave circuit voltage, v	1125
Slow-wave circuit voltage, v Minimum	1000
Slow-wave circuit voltage, v Maximum	1250
Control electrode voltage, v	20

Specifications	
Name	Value
Collector voltage, v	1300
External loading agreement coefficient	1.8
Noise coefficient	25dB

UV15A

Russian Tube

Application as uhf amplifier

Specifications		
Name		Value
Cathode type		Oxide, indirect heating
Output type		Waveguide 4x23mm
Envelope		Glass
Mass		60g
Cooling method		Natural
Frequency range		3.3 cm
Frequency range Minimum		2.9 cm
Frequency range Maximum		3.6 cm
Output power		0.5mW
Gain		23dB
Filament voltage, v		2.8
Filament voltage, v Minimum		2.3
Filament voltage, v Maximum		3.3
Filament current, a		0.65
Filament current, a Minimum		0.5
Filament current, a Maximum		0.8
First anode voltage, v		50
First anode voltage, v Minimum		20
First anode voltage, v Maximum		80
Slow-wave circuit voltage, v		715
Slow-wave circuit voltage, v Minimum		650
Slow-wave circuit voltage, v Maximum		780
Control electrode voltage, v		10
Collector voltage, v		900
Noise coefficient		15dB

UV204

Russian Tube

Input power amplification

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Waveguide 61x10mm
Envelope	Glass with external collector
Mass	650g
Cooling method	Forced air
Frequency range	3650 MHz
Frequency range Minimum	3400 MHz
Frequency range Maximum	3900 MHz
Output power	20W
Gain	20dB
Filament voltage, v	12.6
Filament current, a	1.2
Filament current, a Minimum	1.05
Filament current, a Maximum	1.25
First anode voltage, v	2300
First anode voltage, v Minimum	2200
First anode voltage, v Maximum	2400
Slow-wave circuit voltage, v	2535
Slow-wave circuit voltage, v Minimum	2500
Slow-wave circuit voltage, v Maximum	2570
Control electrode voltage, v	40
Control electrode voltage, v Minimum	20
Control electrode voltage, v Maximum	60
Collector voltage, v	2800
Collector voltage, v Minimum	2600

Specifications	
Name	Value
Collector voltage, v Maximum	3000
External loading agreement coefficient	1.2

UV205

Russian Tube

Uhf power amplification

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Waveguide
Envelope	Glass
Mass	150g
Cooling method	Forced air
Frequency range	3900
Frequency range Minimum	3400
Frequency range Maximum	4400
Output power	3.5 W
Output power Minimum	3 W
Output power Maximum	4 W
Gain	30db
Filament voltage, v	6.3
Filament current, a	1.2
Filament current, a Minimum	1
Filament current, a Maximum	1.4
First anode voltage, v	1225
First anode voltage, v Minimum	1100
First anode voltage, v Maximum	1350
Slow-wave circuit voltage, v	1362.5
Slow-wave circuit voltage, v Minimum	1250
Slow-wave circuit voltage, v Maximum	1475
Control electrode voltage, v	7.5
Control electrode voltage, v Minimum	5
Control electrode voltage, v Maximum	10

Specifications	
Name	Value
Collector voltage, v	1500
External loading agreement coefficient	2
Noise coefficient	S/n=45db

UV229

Russian Tube

Uhf power amplification

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Waveguide
Envelope	Glass with external collector
Mass	350
Cooling method	Forced air
Frequency range	3800
Frequency range Minimum	3400
Frequency range Maximum	4200
Output power	6W
Gain	24.8dB
Filament voltage, v	6.3
Filament current, a	2.3
Filament current, a Minimum	2.1
Filament current, a Maximum	2.5
First anode voltage, v	800
First anode voltage, v Minimum	650
First anode voltage, v Maximum	950
Slow-wave circuit voltage, v	1625
Slow-wave circuit voltage, v Minimum	1500
Slow-wave circuit voltage, v Maximum	1750
Collector voltage, v	1750
Collector voltage, v Minimum	1500
Collector voltage, v Maximum	2000
External loading agreement coefficient	1.3
Noise coefficient	30dB

UV2291

Russian Tube

Uhf power amplification

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Waveguide
Envelope	Glass with external collector
Mass	350
Cooling method	Forced air
Frequency range	3800
Frequency range Minimum	3400
Frequency range Maximum	4200
Output power	6W
Filament voltage, v	6.3
Filament current, a	2.3
Filament current, a Minimum	1.9
Filament current, a Maximum	2.6
First anode voltage, v	800
First anode voltage, v Minimum	650
First anode voltage, v Maximum	950
Slow-wave circuit voltage, v	1625
Slow-wave circuit voltage, v Minimum	1500
Slow-wave circuit voltage, v Maximum	1750
Collector voltage, v	1750
Collector voltage, v Minimum	1500
Collector voltage, v Maximum	2000
External loading agreement coefficient	1.2

UV22A

Russian Tube

Uhf low-noise amplification

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Coaxial
Envelope	Glass
Mass	150g
Cooling method	Forced air
Frequency range	767.5 MHz
Frequency range Minimum	720 MHz
Frequency range Maximum	815 MHz
Gain	15dB
Filament voltage, v	2.3
Filament voltage, v Minimum	1.9
Filament voltage, v Maximum	2.7
Filament current, a	0.65
Filament current, a Minimum	0.5
Filament current, a Maximum	0.8
First anode voltage, v	50
Slow-wave circuit voltage, v	212.5
Slow-wave circuit voltage, v Minimum	125
Slow-wave circuit voltage, v Maximum	300
Control electrode voltage, v	15
Collector voltage, v	462.5
Collector voltage, v Minimum	425
Collector voltage, v Maximum	500
External loading agreement coefficient	2
Noise coefficient	7.8dB

UV230

Russian Tube

Uhf power amplification

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Coaxial
Envelope	Glass
Mass	3kg
Cooling method	Forced water
Frequency range	987.5 MHz
Frequency range Minimum	975 MHz
Frequency range Maximum	1000 MHz
Output power	40W
Gain	25dB
Filament voltage, v	12.6
Filament current, a	0.7
Filament current, a Minimum	0.5
Filament current, a Maximum	0.9
First anode voltage, v	1925
First anode voltage, v Minimum	1800
First anode voltage, v Maximum	2050
Slow-wave circuit voltage, v	1900
Slow-wave circuit voltage, v Minimum	1800
Slow-wave circuit voltage, v Maximum	2000
Control electrode voltage, v	100
Collector voltage, v	2020
Collector voltage, v Minimum	1540
Collector voltage, v Maximum	2500
External loading agreement coefficient	1.4

UV24

Russian Tube

Uhf power amplification

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Coaxial
Envelope	Glass with signal conditioning unit in metal envelope
Mass	500g
Cooling method	Forced air
Frequency range	10.1 cm
Frequency range Minimum	8 cm
Frequency range Maximum	12.2 cm
Output power	1mW
Gain	35dB
Filament voltage, v	2.7
Filament voltage, v Minimum	2
Filament voltage, v Maximum	3.3
Filament current, a	0.75
Filament current, a Minimum	0.5
Filament current, a Maximum	1
First anode voltage, v	102.5
First anode voltage, v Minimum	5
First anode voltage, v Maximum	200
Slow-wave circuit voltage, v	470
Slow-wave circuit voltage, v Minimum	420
Slow-wave circuit voltage, v Maximum	520
Control electrode voltage, v	9
Control electrode voltage, v Minimum	3
Control electrode voltage, v Maximum	15

Specifications	
Name	Value
Collector voltage, v	600
External loading agreement coefficient	2.5
Noise coefficient	14dB

UV257

Russian Tube

Uhf power amplification

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Waveguide
Envelope	Glass
Mass	300g
Cooling method	Natural
Frequency range	3650 MHz
Frequency range Minimum	3400 MHz
Frequency range Maximum	3900 MHz
Output power	15W
Gain	30dB
Filament voltage, v	6.3
Filament current, a	2.4
Filament current, a Minimum	2.1
Filament current, a Maximum	2.6
First anode voltage, v	900
First anode voltage, v Minimum	700
First anode voltage, v Maximum	1100
Slow-wave circuit voltage, v	2550
Slow-wave circuit voltage, v Minimum	2300
Slow-wave circuit voltage, v Maximum	2800
Collector voltage, v	2300
Collector voltage, v Minimum	1800
Collector voltage, v Maximum	2800
External loading agreement coefficient	1.5
Noise coefficient	30dB

UV260

Russian Tube

Uhf output amplification

Specifications		
Name		Value
Cathode type		Oxide, indirect heating
Output type		Coaxial
Envelope		Glass
Mass		3.5kg
Cooling method		Forced water
Frequency range		987 Mhz
Frequency range Minimum		972 Mhz
Frequency range Maximum		1002 Mhz
Output power		50W
Gain		27dB
Filament voltage, v		12.6
Filament current, a		0.7
Filament current, a Minimum		0.5
Filament current, a Maximum		0.9
First anode voltage, v		2050
First anode voltage, v Minimum		1900
First anode voltage, v Maximum		2200
Slow-wave circuit voltage, v		2050
Slow-wave circuit voltage, v Minimum		1900
Slow-wave circuit voltage, v Maximum		2200
Control electrode voltage, v		51
Control electrode voltage, v Minimum		2
Control electrode voltage, v Maximum		100
Collector voltage, v		1500
Collector voltage, v Minimum		1400

Specifications	
Name	Value
Collector voltage, v Maximum	1600
External loading agreement coefficient	1.7

UV278

Russian Tube

Application in transmitter

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Coaxial
Envelope	Metal-ceramic
Mass	1.3kg
Cooling method	Conductive
Frequency range	6.1 GHz
Frequency range Minimum	5.7 GHz
Frequency range Maximum	6.5 GHz
Output power	20W
Gain	40dB
Filament voltage, v	8
Filament current, a	0.75
Filament current, a Minimum	0.6
Filament current, a Maximum	0.9
First anode voltage, v	2800
First anode voltage, v Minimum	2600
First anode voltage, v Maximum	3000
Slow-wave circuit voltage, v	2600
Slow-wave circuit voltage, v Minimum	2400
Slow-wave circuit voltage, v Maximum	2800
Collector voltage, v	1400
Collector voltage, v Minimum	1200
Collector voltage, v Maximum	1600
External loading agreement coefficient	1.5

UV278A

Russian Tube

Application in transmitter

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Coaxial
Envelope	Metal-ceramic
Mass	1.3kg
Cooling method	Conductive
Frequency range	6.1 GHz
Frequency range Minimum	5.7 GHz
Frequency range Maximum	6.5 GHz
Output power	20W
Gain	37dB
Filament voltage, v	8
Filament current, a	0.75
Filament current, a Minimum	0.6
Filament current, a Maximum	0.9
First anode voltage, v	2800
First anode voltage, v Minimum	2600
First anode voltage, v Maximum	3000
Slow-wave circuit voltage, v	2600
Slow-wave circuit voltage, v Minimum	2400
Slow-wave circuit voltage, v Maximum	2800
Collector voltage, v	1400
Collector voltage, v Minimum	1200
Collector voltage, v Maximum	1600
External loading agreement coefficient	1.5

UV3

Russian Tube

Application as hf amplifier

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Coaxial 75ohm
Envelope	Glass
Mass	105g
Cooling method	Natural
Frequency range	860 MHz
Frequency range Minimum	810 MHz
Frequency range Maximum	910 MHz
Filament voltage, v	2.7
Filament voltage, v Minimum	2.4
Filament voltage, v Maximum	3
Filament current, a	0.7
Filament current, a Minimum	0.55
Filament current, a Maximum	0.85
First anode voltage, v	16
First anode voltage, v Minimum	8
First anode voltage, v Maximum	24
Slow-wave circuit voltage, v	210
Slow-wave circuit voltage, v Minimum	180
Slow-wave circuit voltage, v Maximum	240
Control electrode voltage, v	4.5
Control electrode voltage, v Minimum	2
Control electrode voltage, v Maximum	7
Collector voltage, v	375
External loading agreement coefficient	1.7

Specifications	
Name	Value
Noise coefficient	6

UV34

Russian Tube

Application as amplifier and power limiter

Specifications		
Name		Value
Cathode type		Oxide, indirect heating
Output type		Coaxial
Mass		1.8kg
Cooling method		Natural
Frequency range		3050 MHz
Frequency range Minimum		2500 MHz
Frequency range Maximum		3600 MHz
Output power		500mW
Gain		30dB
Filament voltage, v		6.3
Filament current, a		0.675
Filament current, a Minimum		0.5
Filament current, a Maximum		0.85
First anode voltage, v		175
First anode voltage, v Minimum		100
First anode voltage, v Maximum		250
Slow-wave circuit voltage, v		1200
Slow-wave circuit voltage, v Minimum		1080
Slow-wave circuit voltage, v Maximum		1320
Control electrode voltage, v		30
Collector voltage, v		1400

UV35

Russian Tube

Application as amplifier and power limiter

Specifications		
Name		Value
Cathode type		Oxide, indirect heating
Output type		Coaxial
Envelope		Glass
Mass		1.8kg
Cooling method		Natural
Frequency range		7.3 cm
Frequency range Minimum		6 cm
Frequency range Maximum		8.5 cm
Output power		250W
Gain		30dB
Filament voltage, v		6.3
Filament current, a		0.675
Filament current, a Minimum		0.5
Filament current, a Maximum		0.85
First anode voltage, v		175
First anode voltage, v Minimum		100
First anode voltage, v Maximum		250
Slow-wave circuit voltage, v		1300
Slow-wave circuit voltage, v Minimum		1200
Slow-wave circuit voltage, v Maximum		1400
Control electrode voltage, v		30
Collector voltage, v		1400
Noise coefficient		30dB

UV40

Russian Tube

Uhf amplification in first stage

Specifications		
Name		Value
Cathode type		Oxide, indirect heating
Output type		Coaxial
Envelope		Glass with signal conditioning unit in metal envelope
Mass		380g
Cooling method		Natural
Frequency range		16 cm
Frequency range Minimum		12.1 cm
Frequency range Maximum		19.8 cm
Gain		25dB
Filament voltage, v		2.5
Filament voltage, v Minimum		2
Filament voltage, v Maximum		3
Filament current, a		0.75
Filament current, a Minimum		0.5
Filament current, a Maximum		1
First anode voltage, v		65
First anode voltage, v Minimum		30
First anode voltage, v Maximum		100
Slow-wave circuit voltage, v		385
Slow-wave circuit voltage, v Minimum		320
Slow-wave circuit voltage, v Maximum		450
Control electrode voltage, v		20
Control electrode voltage, v Minimum		10
Control electrode voltage, v Maximum		30
Collector voltage, v		500

Specifications	
Name	Value
External loading agreement coefficient	2.8
External loading agreement coefficient Minimum	2.5
External loading agreement coefficient Maximum	3
Noise coefficient	10dB

UV416A

Russian Tube

Application in radio equipment

Specifications	
Name	Value
Cathode type	Indirect heating
Output type	Coaxial
Envelope	Metal-ceramic
Mass	0.85kg
Cooling method	Conductive
Frequency range	5000 MHz
Frequency range Minimum	4900 MHz
Frequency range Maximum	5100 MHz
Output power	22W
Gain	38.5 dB
Gain Minimum	37 dB
Gain Maximum	40 dB
Filament voltage, v	8
Filament current, a	0.75
Filament current, a Minimum	0.6
Filament current, a Maximum	0.9
First anode voltage, v	2800
First anode voltage, v Minimum	2600
First anode voltage, v Maximum	3000
Slow-wave circuit voltage, v	2700
Slow-wave circuit voltage, v Minimum	2500
Slow-wave circuit voltage, v Maximum	2900
Control electrode voltage, v	30
Collector voltage, v	1500
External loading agreement coefficient	1.3

UV416B

Russian Tube

Application in radio equipment

Specifications	
Name	Value
Cathode type	Indirect heating
Output type	Coaxial
Envelope	Metal-ceramic
Mass	0.85kg
Cooling method	Conductive
Frequency range	5300 MHz
Frequency range Minimum	4900 MHz
Frequency range Maximum	5700 MHz
Output power	22W
Gain	38.5 dB
Gain Minimum	37 dB
Gain Maximum	40 dB
Filament voltage, v	8
Filament current, a	0.75
Filament current, a Minimum	0.6
Filament current, a Maximum	0.9
First anode voltage, v	2800
First anode voltage, v Minimum	2600
First anode voltage, v Maximum	3000
Slow-wave circuit voltage, v	2700
Slow-wave circuit voltage, v Minimum	2500
Slow-wave circuit voltage, v Maximum	2900
Control electrode voltage, v	30
Collector voltage, v	1500
External loading agreement coefficient	1.3

UV42

Russian Tube

Hf power amplification

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Coaxial
Envelope	Glass with metal envelope
Mass	1.8kg
Cooling method	Natural
Frequency range	6.9 cm
Frequency range Minimum	5.6 cm
Frequency range Maximum	8.1 cm
Gain	20 dB
Gain Minimum	10 dB
Gain Maximum	30 dB
Filament voltage, v	6.3
Filament current, a	0.675
Filament current, a Minimum	0.5
Filament current, a Maximum	0.85
First anode voltage, v	225
First anode voltage, v Minimum	150
First anode voltage, v Maximum	300
Slow-wave circuit voltage, v	1300
Slow-wave circuit voltage, v Minimum	1200
Slow-wave circuit voltage, v Maximum	1400
Control electrode voltage, v	50
Collector voltage, v	1400
External loading agreement coefficient	3.5
Noise coefficient	31.5 dB

Specifications	
Name	Value
Noise coefficient Minimum	30 dB
Noise coefficient Maximum	33 dB

UV5

Russian Tube

Uhf amplification in first stage

Specifications		
Name		Value
Cathode type		Oxide, indirect heating
Output type		Waveguide 10x61mm
Envelope		Glass
Mass		110g
Cooling method		Forced air
Frequency range		7.8 cm
Frequency range Minimum		6.8 cm
Frequency range Maximum		8.8 cm
Gain		19 dB
Gain Minimum		18 dB
Gain Maximum		20 dB
Filament voltage, v		2.5
Filament voltage, v Minimum		2
Filament voltage, v Maximum		3
Filament current, a		0.7
Filament current, a Minimum		0.5
Filament current, a Maximum		0.9
First anode voltage, v		92.5
First anode voltage, v Minimum		5
First anode voltage, v Maximum		180
Slow-wave circuit voltage, v		435
Slow-wave circuit voltage, v Minimum		390
Slow-wave circuit voltage, v Maximum		480
Control electrode voltage, v		12
Collector voltage, v		600

Specifications	
Name	Value
External loading agreement coefficient	1.6
Noise coefficient	8

UV50A

Russian Tube

Hf power amplification

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Waveguide 3x17mm
Envelope	Glass with permanent magnetic system in metal envelope
Mass	1.1kg
Cooling method	Natural
Frequency range	2.1 cm
Frequency range Minimum	1.8 cm
Frequency range Maximum	2.32 cm
Output power	167.5 mW
Output power Minimum	35 mW
Output power Maximum	300 mW
Gain	27dB
Filament voltage, v	6.3
Filament current, a	0.325
Filament current, a Minimum	0.25
Filament current, a Maximum	0.4
Slow-wave circuit voltage, v	1750
Slow-wave circuit voltage, v Minimum	1500
Slow-wave circuit voltage, v Maximum	2000
Control electrode voltage, v	80
Collector voltage, v	1750
Collector voltage, v Minimum	1500
Collector voltage, v Maximum	2000
External loading agreement coefficient	4
Noise coefficient	31dB

UV50B

Russian Tube

Hf power amplification

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Waveguide 3x17mm
Envelope	Glass with permanent magnetic system in metal envelope
Mass	1.1kg
Cooling method	Natural
Frequency range	2.6 cm
Frequency range Minimum	2.25 cm
Frequency range Maximum	3 cm
Output power	167.5 mW
Output power Minimum	35 mW
Output power Maximum	300 mW
Gain	27dB
Filament voltage, v	6.3
Filament current, a	0.325
Filament current, a Minimum	0.25
Filament current, a Maximum	0.4
Slow-wave circuit voltage, v	1750
Slow-wave circuit voltage, v Minimum	1500
Slow-wave circuit voltage, v Maximum	2000
Control electrode voltage, v	80
Collector voltage, v	1750
Collector voltage, v Minimum	1500
Collector voltage, v Maximum	2000
External loading agreement coefficient	4
Noise coefficient	31dB

UV51A

Russian Tube

Low-power uhf amplification

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Waveguide 3.4x7.2mm
Envelope	Metal with permanent magnets
Mass	9.5kg
Cooling method	Natural
Frequency range	30258.5 MHz
Frequency range Minimum	23054 MHz
Frequency range Maximum	37463 MHz
Gain	12dB
Filament voltage, v	6.3
Filament current, a	0.8
Filament current, a Minimum	0.65
Filament current, a Maximum	0.95
First anode voltage, v	550
First anode voltage, v Minimum	250
First anode voltage, v Maximum	850
Slow-wave circuit voltage, v	1750
Slow-wave circuit voltage, v Minimum	1500
Slow-wave circuit voltage, v Maximum	2000
Control electrode voltage, v	150
Collector voltage, v	150
External loading agreement coefficient	1.4
Noise coefficient	28dB

UV51B

Russian Tube

Low-power uhf amplification

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Waveguide 5.5x11mm
Envelope	Metal with permanent magnets
Mass	9.5kg
Cooling method	Natural
Frequency range	19019.5 MHz
Frequency range Minimum	14985 MHz
Frequency range Maximum	23054 MHz
Gain	12dB
Filament voltage, v	6.3
Filament current, a	0.8
Filament current, a Minimum	0.65
Filament current, a Maximum	0.95
First anode voltage, v	400
First anode voltage, v Minimum	250
First anode voltage, v Maximum	550
Slow-wave circuit voltage, v	1550
Slow-wave circuit voltage, v Minimum	1400
Slow-wave circuit voltage, v Maximum	1700
Control electrode voltage, v	100
Collector voltage, v	150
External loading agreement coefficient	1.4
Noise coefficient	15dB

UV7

Russian Tube

Uhf amplification in last stage

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Waveguide 10x61mm
Envelope	Glass
Mass	100g
Cooling method	Forced air
Frequency range	8.3 cm
Frequency range Minimum	7.7 cm
Frequency range Maximum	8.8 cm
Output power	3W
Gain	31 dB
Gain Minimum	26 dB
Gain Maximum	36 dB
Filament voltage, v	6.3
Filament current, a	0.775
Filament current, a Minimum	0.7
Filament current, a Maximum	0.85
Slow-wave circuit voltage, v	1.3
Slow-wave circuit voltage, v Minimum	1.1
Slow-wave circuit voltage, v Maximum	1.4
Control electrode voltage, v	50
Collector voltage, v	1500
External loading agreement coefficient	1.6

UV71

Russian Tube

Application as hf amplifier

Specifications		
Name		Value
Cathode type		Oxide, indirect heating
Output type		Waveguide 10x61mm
Envelope		Glass
Mass		150g
Cooling method		Forced air
Frequency range		8.3 cm
Frequency range Minimum		7.7 cm
Frequency range Maximum		8.8 cm
Output power		4W
Gain		32.5 dB
Gain Minimum		30 dB
Gain Maximum		35 dB
Filament voltage, v		6.3
Filament current, a		0.725
Filament current, a Minimum		0.6
Filament current, a Maximum		0.85
Slow-wave circuit voltage, v		1250
Slow-wave circuit voltage, v Minimum		1100
Slow-wave circuit voltage, v Maximum		1400
Control electrode voltage, v		50
Collector voltage, v		1500
External loading agreement coefficient		1.6
Noise coefficient		35dB

UV91

Russian Tube

Uhf input amplifier

Specifications	
Name	Value
Cathode type	Indirect heating
Output type	Coaxial
Envelope	Glass with permanent magnet focusing system in metal envelope
Mass	8.5
Cooling method	Natural
Frequency range	10.2 cm
Frequency range Minimum	10.06 cm
Frequency range Maximum	10.3 cm
Gain	25 dB
Gain Minimum	20 dB
Gain Maximum	30 dB
Filament voltage, v	2
Filament voltage, v Minimum	1.7
Filament voltage, v Maximum	2.3
Filament current, a	0.23
Filament current, a Minimum	0.2
Filament current, a Maximum	0.26
Slow-wave circuit voltage, v	75
Slow-wave circuit voltage, v Minimum	60
Slow-wave circuit voltage, v Maximum	90
Collector voltage, v	400
External loading agreement coefficient	2
Noise coefficient	3

UVF5

Russian Tube

Application as amplifier-phase changer in afc

Specifications	
Name	Value
Cathode type	Oxide, indirect heating
Output type	Coaxial
Envelope	Glass
Mass	2.5kg
Cooling method	Forced air
Frequency range	991MHz
Output power	5.8 W
Output power Minimum	3.5 W
Output power Maximum	8 W
Filament voltage, v	12.6
Filament current, a	0.75
Filament current, a Minimum	0.5
Filament current, a Maximum	1
First anode voltage, v	1000
First anode voltage, v Minimum	850
First anode voltage, v Maximum	1150
Slow-wave circuit voltage, v	1250
Slow-wave circuit voltage, v Minimum	1100
Slow-wave circuit voltage, v Maximum	1400
Control electrode voltage, v	100
Control electrode voltage, v Minimum	40
Control electrode voltage, v Maximum	160
Collector voltage, v	1400
Collector voltage, v Minimum	1300
Collector voltage, v Maximum	1500

Specifications	
Name	Value
External loading agreement coefficient	1.3