

K11

Russian Tube

Reflex

Application As Heterodine In Receivers Or Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Glass
Mass		60g
Cooling Method		Natural
Frequency Band		10.1cm
Frequency Band Minimum		8.25cm
Frequency Band Maximum		12cm
Output Power		30mW/8.25cm 70mW/10cm 80mW/11.35cm
Tuning Transconductance, Mhz/Ma		0.25MHz/V
Tuning Range, Mhz		12
Filament Voltage, V		6.3
Filament Current, A		0.68
Filament Current, A Minimum		0.63
Filament Current, A Maximum		0.73
Resonator Voltage, V		250V
Reflector Negative Voltage, V		150
Reflector Negative Voltage, V Minimum		90
Reflector Negative Voltage, V Maximum		210

K114

Russian Tube

Reflex

Continuous Uhf Fm Oscillation In Airplane Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal-Ceramic, Waveguide Output, Mechanical Tuning
Mass		400g
Cooling Method		Natural
Frequency Band		8800MHz
Frequency Band Minimum		8775MHz
Frequency Band Maximum		8825MHz
Output Power		450mW
Tuning Transconductance, Mhz/Ma		0.675
Tuning Transconductance, Mhz/Ma Minimum		0.5
Tuning Transconductance, Mhz/Ma Maximum		0.85
Tuning Range, Mhz		24
Filament Voltage, V		6.3
Filament Current, A		1.3
Resonator Voltage, V		500
Reflector Negative Voltage, V		275
Reflector Negative Voltage, V Minimum		150
Reflector Negative Voltage, V Maximum		400

K12

Russian Tube

Reflex

Application As Heterodine In Receivers Or Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Glass
Mass		25g
Cooling Method		Natural
Frequency Band		3068MHz
Frequency Band Minimum		2500MHz
Frequency Band Maximum		3636MHz
Output Power		80mW/2500MHz 100mW/3000MHz 30mW/3636MHz
Tuning Transconductance, Mhz/Ma		0.25
Tuning Range, Mhz		12
Filament Voltage, V		6.3
Filament Current, A		0.68
Filament Current, A Minimum		0.63
Filament Current, A Maximum		0.73
Resonator Voltage, V		250
Reflector Negative Voltage, V		162.5
Reflector Negative Voltage, V Minimum		45
Reflector Negative Voltage, V Maximum		280

K147

Russian Tube

Reflex

In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Indirect Heating
Envelope		Metal-Ceramic, Coaxial Output
Mass		22g
Cooling Method		Natural
Frequency Band		10.6GHz
Frequency Band Minimum		7.9GHz
Frequency Band Maximum		13.2GHz
Output Power		32mW
Tuning Transconductance, Mhz/Ma		1.5
Tuning Range, Mhz		5
Filament Voltage, V		6.3
Filament Current, A		0.525
Filament Current, A Minimum		0.45
Filament Current, A Maximum		0.6
Resonator Voltage, V		350
Reflector Negative Voltage, V		310
Reflector Negative Voltage, V Minimum		20
Reflector Negative Voltage, V Maximum		600

K15

Russian Tube

Reflex

Application As Heterodine In Receivers Or Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Glass
Mass		20g
Cooling Method		Natural
Frequency Band		4375MHz
Frequency Band Minimum		3090MHz
Frequency Band Maximum		5660MHz
Output Power		50mW
Tuning Range, Mhz		19
Filament Voltage, V		6.3
Filament Current, A		0.525
Filament Current, A Minimum		0.45
Filament Current, A Maximum		0.6
Resonator Voltage, V		250
Reflector Negative Voltage, V		290
Reflector Negative Voltage, V Minimum		230
Reflector Negative Voltage, V Maximum		350

K152

Russian Tube

Reflex

Application As Heterodine In Special Equipment

Specifications	
Name	Value
Cathode Type	Indirect Heating
Envelope	Metal-Ceramic, Waveguide Output
Mass	200g
Cooling Method	Forced Air
Frequency Band	32140MHz
Frequency Band Minimum	31680MHz
Frequency Band Maximum	32600MHz
Output Power	20mW
Tuning Transconductance, Mhz/Ma	3.8
Tuning Transconductance, Mhz/Ma Minimum	1.5
Tuning Transconductance, Mhz/Ma Maximum	6
Tuning Range, Mhz	60
Filament Voltage, V	6.3
Filament Current, A	0.45
Filament Current, A Minimum	0.2
Filament Current, A Maximum	0.7
Resonator Voltage, V	500
Reflector Negative Voltage, V	175
Reflector Negative Voltage, V Minimum	50
Reflector Negative Voltage, V Maximum	300

K154

Russian Tube

Reflex

Application In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Indirect Heating
Envelope		Metal-Ceramic
Mass		30g
Cooling Method		Natural
Frequency Band		7.4GHz
Frequency Band Minimum		5.6GHz
Frequency Band Maximum		9.1GHz
Output Power		80mW
Output Power Minimum		60mW
Output Power Maximum		100mW
Tuning Transconductance, Mhz/Ma		1.5
Tuning Range, Mhz		4
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		350
Reflector Negative Voltage, V		265
Reflector Negative Voltage, V Minimum		30
Reflector Negative Voltage, V Maximum		500

K154A

Russian Tube

Reflex

Application In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Indirect Heating
Envelope		Metal-Ceramic
Mass		30g
Cooling Method		Natural
Frequency Band		8.9GHz
Frequency Band Minimum		8GHz
Frequency Band Maximum		9.7GHz
Output Power		50mW
Tuning Transconductance, Mhz/Ma		1.5
Tuning Range, Mhz		4
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		350
Reflector Negative Voltage, V		265
Reflector Negative Voltage, V Minimum		30
Reflector Negative Voltage, V Maximum		500

K162

Russian Tube

Reflex

Application In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Indirect Heating
Envelope		Metal-Ceramic With Detachable Tunable Resonator
Mass		30
Cooling Method		Natural
Frequency Band		8.4GHz
Frequency Band Minimum		6GHz
Frequency Band Maximum		10.8GHz
Output Power		40mW
Tuning Transconductance, Mhz/Ma		3
Tuning Range, Mhz		5
Filament Voltage, V		6.3
Filament Current, A		0.525
Filament Current, A Minimum		0.45
Filament Current, A Maximum		0.6
Resonator Voltage, V		350
Reflector Negative Voltage, V		265
Reflector Negative Voltage, V Minimum		30
Reflector Negative Voltage, V Maximum		500

K19

Russian Tube

Reflex

Application As Heterodine Or Low-Power Generator In Special Equipment

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	Metal, Coaxial Output, Mechanical Tuning
Mass	60g
Cooling Method	Natural
Frequency Band	9.3GHz
Frequency Band Minimum	9.174GHz
Frequency Band Maximum	9.524GHz
Output Power	17-20mW/A 10-15mW/B
Tuning Transconductance, Mhz/Ma	3MHz/V
Tuning Range, Mhz	28
Filament Voltage, V	6.3
Filament Current, A	0.525
Filament Current, A Minimum	0.45
Filament Current, A Maximum	0.6
Resonator Voltage, V	300
Reflector Negative Voltage, V	125-190/A 70-124/B

K20

Russian Tube

Reflex

Application As Heterodine Or Low-Power Generator In Special Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal, Coaxial Output, Mechanical Tuning
Mass		60g
Cooling Method		Natural
Frequency Band		9.1GHz
Frequency Band Minimum		8.571GHz
Frequency Band Maximum		9.584GHz
Output Power		7mW
Tuning Transconductance, Mhz/Ma		3MHz/V
Tuning Range, Mhz		28
Filament Voltage, V		6.3
Filament Current, A		0.525
Filament Current, A Minimum		0.45
Filament Current, A Maximum		0.6
Resonator Voltage, V		300
Reflector Negative Voltage, V		135
Reflector Negative Voltage, V Minimum		70
Reflector Negative Voltage, V Maximum		200

K200

Russian Tube

Reflex

Application As Heterodine Or Low-Power Generator In Special Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal, Coaxial Output, Mechanical Tuning
Mass		60g
Cooling Method		Natural
Frequency Band		9.4MHz
Frequency Band Minimum		9.404MHz
Frequency Band Maximum		9.463MHz
Output Power		18mW
Tuning Transconductance, Mhz/Ma		3MHz/V
Tuning Range, Mhz		28
Filament Voltage, V		6.3
Filament Current, A		0.525
Filament Current, A Minimum		0.45
Filament Current, A Maximum		0.6
Resonator Voltage, V		300
Reflector Negative Voltage, V		160
Reflector Negative Voltage, V Minimum		130
Reflector Negative Voltage, V Maximum		190

K26

Russian Tube

Reflex

Application As Heterodine In Uhf Receivers Or Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Glass
Mass		60g
Cooling Method		Natural
Frequency Band		52.5cm
Frequency Band Minimum		45cm
Frequency Band Maximum		60cm
Output Power		100mW
Tuning Transconductance, Mhz/Ma		0.3MHz/V
Tuning Range, Mhz		5
Filament Voltage, V		6.3
Filament Current, A		0.65
Filament Current, A Minimum		0.5
Filament Current, A Maximum		0.8
Resonator Voltage, V		250
Reflector Negative Voltage, V		237.5
Reflector Negative Voltage, V Minimum		150
Reflector Negative Voltage, V Maximum		325

K27

Russian Tube

Reflex

Application As Heterodine In Uhf Receivers Or Measuring Equipment

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	Metal, Coaxial Output, Mechanical Tuning
Mass	60g
Cooling Method	Natural
Frequency Band	3.3cm
Frequency Band Minimum	3.1cm
Frequency Band Maximum	3.53cm
Output Power	8-20mW/A 10-15mW/B
Tuning Transconductance, Mhz/Ma	3MHz/V -/A 3.5MHz/V -/B
Tuning Range, Mhz	40
Filament Voltage, V	6.3
Filament Current, A	0.525
Filament Current, A Minimum	0.45
Filament Current, A Maximum	0.6
Resonator Voltage, V	300
Reflector Negative Voltage, V	85-200/A 40-140/B

K29

Russian Tube

Reflex

Application As Low-Power Generator In Special Or Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal, Coaxial Output, Without Tuning Mechanism
Mass		250g
Cooling Method		Heatsink Or Forced Air
Frequency Band		9575MHz
Frequency Band Minimum		8810MHz
Frequency Band Maximum		10340MHz
Output Power		15mW
Tuning Transconductance, Mhz/Ma		20MHz/V
Tuning Range, Mhz		30
Filament Voltage, V		6.3
Filament Current, A		0.575
Filament Current, A Minimum		0.45
Filament Current, A Maximum		0.7
Resonator Voltage, V		320
Reflector Negative Voltage, V		300
Reflector Negative Voltage, V Minimum		150
Reflector Negative Voltage, V Maximum		450

K29M

Russian Tube

Reflex

Application As Low-Power Generator In Special Or Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal, Coaxial Output, Fast Mechanical Tuning
Mass		400g
Cooling Method		Heatsink Or Forced Air
Frequency Band		9575MHz
Frequency Band Minimum		8810MHz
Frequency Band Maximum		10340MHz
Output Power		15mW
Tuning Transconductance, Mhz/Ma		20MHz/V
Tuning Range, Mhz		30
Filament Voltage, V		6.3
Filament Current, A		0.575
Filament Current, A Minimum		0.45
Filament Current, A Maximum		0.7
Resonator Voltage, V		320
Reflector Negative Voltage, V		300
Reflector Negative Voltage, V Minimum		150
Reflector Negative Voltage, V Maximum		450

K30

Russian Tube

Reflex

Application As Low-Power Generator In Special Or Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal, Coaxial Output, Without Tuning Mechanism
Mass		250g
Cooling Method		Heatsink Or Forced Air
Frequency Band		3.6cm
Frequency Band Minimum		3.3cm
Frequency Band Maximum		3.9cm
Output Power		15mW
Tuning Transconductance, Mhz/Ma		20MHz/V
Tuning Range, Mhz		30
Filament Voltage, V		6.3
Filament Current, A		0.575
Filament Current, A Minimum		0.45
Filament Current, A Maximum		0.7
Resonator Voltage, V		320
Reflector Negative Voltage, V		215
Reflector Negative Voltage, V Minimum		80
Reflector Negative Voltage, V Maximum		350

K308

Russian Tube

Reflex

Application With Detachable Single-Flow Resonator As Radiorelay
Communication Lines Modulator

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Glass
Mass		17g
Cooling Method		Natural
Frequency Band		3704.5MHz
Frequency Band Minimum		3409MHz
Frequency Band Maximum		4000MHz
Output Power		550mW
Output Power Minimum		500mW
Output Power Maximum		600mW
Tuning Transconductance, Mhz/Ma		0.5
Tuning Range, Mhz		25
Filament Voltage, V		6.3
Filament Current, A		1
Filament Current, A Minimum		0.85
Filament Current, A Maximum		1.2
Resonator Voltage, V		220
Reflector Negative Voltage, V		200
Reflector Negative Voltage, V Minimum		100
Reflector Negative Voltage, V Maximum		300

K308A

Russian Tube

Reflex

Application As Generator In Radiorelay Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Glass
Mass		17g
Cooling Method		Natural
Frequency Band		7.9cm
Frequency Band Minimum		7.6cm
Frequency Band Maximum		8.2cm
Output Power		400mW
Tuning Transconductance, Mhz/Ma		0.5
Tuning Range, Mhz		25
Filament Voltage, V		6.3
Filament Current, A		1
Filament Current, A Minimum		0.85
Filament Current, A Maximum		1.2
Resonator Voltage, V		220
Reflector Negative Voltage, V		200
Reflector Negative Voltage, V Minimum		100
Reflector Negative Voltage, V Maximum		300

K308B

Russian Tube

Reflex

Application As Generator In Radiorelay Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Glass
Mass		17g
Cooling Method		Natural
Frequency Band		8.6cm
Frequency Band Minimum		8.2cm
Frequency Band Maximum		8.9cm
Output Power		400mW
Tuning Transconductance, Mhz/Ma		0.5
Tuning Range, Mhz		25
Filament Voltage, V		6.3
Filament Current, A		1
Filament Current, A Minimum		0.85
Filament Current, A Maximum		1.2
Resonator Voltage, V		220
Reflector Negative Voltage, V		200
Reflector Negative Voltage, V Minimum		100
Reflector Negative Voltage, V Maximum		300

K30M

Russian Tube

Reflex

Application As Low-Power Generator In Special Or Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal, Coaxial Output, Fast Mechanical Tuning
Mass		400g
Cooling Method		Heatsink Or Forced Air
Frequency Band		3.6cm
Frequency Band Minimum		3.3cm
Frequency Band Maximum		3.9cm
Output Power		15mW
Tuning Transconductance, Mhz/Ma		20MHz/V
Tuning Range, Mhz		30
Filament Voltage, V		6.3
Filament Current, A		0.575
Filament Current, A Minimum		0.45
Filament Current, A Maximum		0.7
Resonator Voltage, V		320
Reflector Negative Voltage, V		215
Reflector Negative Voltage, V Minimum		80
Reflector Negative Voltage, V Maximum		350

K31

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal, Coaxial Output, Without Tuning Mechanism
Mass		250g
Cooling Method		Heatsink
Frequency Band		7540MHz
Frequency Band Minimum		6980MHz
Frequency Band Maximum		8100MHz
Output Power		20mW
Tuning Range, Mhz		20
Filament Voltage, V		6.3
Filament Current, A		0.6
Filament Current, A Minimum		0.45
Filament Current, A Maximum		0.75
Resonator Voltage, V		320
Reflector Negative Voltage, V		215
Reflector Negative Voltage, V Minimum		30
Reflector Negative Voltage, V Maximum		400

K314

Russian Tube

Reflex

Application As Fm Uhf Generator In Mobile Tv Transmitters

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal-Ceramic
Mass		700g
Cooling Method		Forced Air
Frequency Band		7100MHz
Frequency Band Minimum		7000MHz
Frequency Band Maximum		7200MHz
Output Power		800mW
Tuning Transconductance, Mhz/Ma		0.4
Tuning Range, Mhz		32
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		750
Reflector Negative Voltage, V		300
Reflector Negative Voltage, V Minimum		100
Reflector Negative Voltage, V Maximum		500

K314A

Russian Tube

Reflex

Application As Fm Uhf Generator In Mobile Tv Transmitters

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal-Ceramic
Mass		700g
Cooling Method		Forced Air
Frequency Band		7100MHz
Frequency Band Minimum		7000MHz
Frequency Band Maximum		7200MHz
Output Power		500mW
Tuning Transconductance, Mhz/Ma		0.4
Tuning Range, Mhz		28
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		750
Reflector Negative Voltage, V		300
Reflector Negative Voltage, V Minimum		100
Reflector Negative Voltage, V Maximum		500

K315

Russian Tube

Reflex

Application As Fm Uhf Generator In Mobile Tv Transmitters

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal-Ceramic
Mass		700g
Cooling Method		Forced Air
Frequency Band		7650MHz
Frequency Band Minimum		7550MHz
Frequency Band Maximum		7750MHz
Output Power		800mW
Tuning Transconductance, Mhz/Ma		0.4
Tuning Range, Mhz		32
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		750
Reflector Negative Voltage, V		300
Reflector Negative Voltage, V Minimum		100
Reflector Negative Voltage, V Maximum		500

K315A

Russian Tube

Reflex

Application As Fm Uhf Generator In Mobile Tv Transmitters

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal-Ceramic
Mass		700g
Cooling Method		Forced Air
Frequency Band		7650MHz
Frequency Band Minimum		7550MHz
Frequency Band Maximum		7750MHz
Output Power		500mW
Tuning Transconductance, Mhz/Ma		0.4
Tuning Range, Mhz		28
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		750
Reflector Negative Voltage, V		300
Reflector Negative Voltage, V Minimum		100
Reflector Negative Voltage, V Maximum		500

K316

Russian Tube

Reflex

Application As Fm Uhf Generator In Mobile Tv Transmitters

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal-Ceramic
Mass		700g
Cooling Method		Forced Air
Frequency Band		8600MHz
Frequency Band Minimum		8500MHz
Frequency Band Maximum		8700MHz
Output Power		800mW
Tuning Transconductance, Mhz/Ma		0.4
Tuning Range, Mhz		32
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		750
Reflector Negative Voltage, V		300
Reflector Negative Voltage, V Minimum		100
Reflector Negative Voltage, V Maximum		500

K316A

Russian Tube

Reflex

Application As Fm Uhf Generator In Mobile Tv Transmitters

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal-Ceramic
Mass		700g
Cooling Method		Forced Air
Frequency Band		8600MHz
Frequency Band Minimum		8500MHz
Frequency Band Maximum		8700MHz
Output Power		500mW
Tuning Transconductance, Mhz/Ma		0.4
Tuning Range, Mhz		28
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		750
Reflector Negative Voltage, V		300
Reflector Negative Voltage, V Minimum		100
Reflector Negative Voltage, V Maximum		500

K32

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal, Coaxial Output, Without Tuning Mechanism
Mass		250g
Cooling Method		Heatsink
Frequency Band		6345MHz
Frequency Band Minimum		5550MHz
Frequency Band Maximum		7140MHz
Output Power		20mW
Tuning Range, Mhz		20
Filament Voltage, V		6.3
Filament Current, A		0.6
Filament Current, A Minimum		0.45
Filament Current, A Maximum		0.75
Resonator Voltage, V		320
Reflector Negative Voltage, V		275
Reflector Negative Voltage, V Minimum		100
Reflector Negative Voltage, V Maximum		450

K33

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal, Coaxial Output, Without Tuning Mechanism
Mass		300g
Cooling Method		Natural
Frequency Band		2cm
Frequency Band Minimum		1.8cm
Frequency Band Maximum		2.1cm
Output Power		10mW
Tuning Range, Mhz		32
Filament Voltage, V		6.3
Filament Current, A		0.575
Filament Current, A Minimum		0.45
Filament Current, A Maximum		0.7
Resonator Voltage, V		400
Reflector Negative Voltage, V		375
Reflector Negative Voltage, V Minimum		150
Reflector Negative Voltage, V Maximum		600

K33M

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal, Coaxial Output, Fast Mechanical Tuning
Mass		450g
Cooling Method		Natural
Frequency Band		2cm
Frequency Band Minimum		1.8cm
Frequency Band Maximum		2.1cm
Output Power		10mW
Tuning Range, Mhz		32
Filament Voltage, V		6.3
Filament Current, A		0.575
Filament Current, A Minimum		0.45
Filament Current, A Maximum		0.7
Resonator Voltage, V		400
Reflector Negative Voltage, V		375
Reflector Negative Voltage, V Minimum		150
Reflector Negative Voltage, V Maximum		600

K34

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal, Coaxial Output, Without Tuning Mechanism
Mass		300g
Cooling Method		Natural
Frequency Band		2.3cm
Frequency Band Minimum		2.08cm
Frequency Band Maximum		2.5cm
Output Power		10mW
Tuning Range, Mhz		32
Filament Voltage, V		6.3
Filament Current, A		0.575
Filament Current, A Minimum		0.45
Filament Current, A Maximum		0.7
Resonator Voltage, V		400
Reflector Negative Voltage, V		325
Reflector Negative Voltage, V Minimum		100
Reflector Negative Voltage, V Maximum		550

K35

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal, Coaxial Output, Without Tuning Mechanism
Mass		300g
Cooling Method		Natural
Frequency Band		2.7cm
Frequency Band Minimum		2.48cm
Frequency Band Maximum		3cm
Output Power		10mW
Tuning Range, Mhz		35
Filament Voltage, V		6.3
Filament Current, A		0.575
Filament Current, A Minimum		0.45
Filament Current, A Maximum		0.7
Resonator Voltage, V		350
Reflector Negative Voltage, V		275
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		500

K351

Russian Tube

Reflex

Application As Heterodine In Receivers Or Measuring Equipment In Radial Or Coaxial Circuit

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Glass
Mass		35g
Cooling Method		Natural
Frequency Band		2993.5MHz
Frequency Band Minimum		2654MHz
Frequency Band Maximum		3333MHz
Output Power		80mW
Tuning Range, Mhz		13
Filament Voltage, V		6.3
Filament Current, A		0.68
Filament Current, A Minimum		0.63
Filament Current, A Maximum		0.73
Resonator Voltage, V		250-
Reflector Negative Voltage, V		150
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		250

K352

Russian Tube

Reflex

Application As Uhf Generator In Wide-Band Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Glass
Mass		30g
Cooling Method		Natural
Frequency Band		5330MHz
Frequency Band Minimum		3160MHz
Frequency Band Maximum		7500MHz
Output Power		20mW
Output Power Minimum		10mW
Output Power Maximum		30mW
Tuning Range, Mhz		13
Filament Voltage, V		6.3
Filament Current, A		0.525
Filament Current, A Minimum		0.45
Filament Current, A Maximum		0.6
Resonator Voltage, V		250
Reflector Negative Voltage, V		270
Reflector Negative Voltage, V Minimum		40
Reflector Negative Voltage, V Maximum		500

K41

Russian Tube

Reflex

Application As Low-Power Generator In Special Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Glass
Mass		30g
Cooling Method		Natural
Frequency Band		17cm
Frequency Band Minimum		12cm
Frequency Band Maximum		22cm
Output Power		80mW
Tuning Range, Mhz		12.5MHz/12cm 8.8MHz/17cm 6.8MHz/22cm
Filament Voltage, V		6.3
Filament Current, A		0.8
Filament Current, A Minimum		0.6
Filament Current, A Maximum		1
Resonator Voltage, V		250
Reflector Negative Voltage, V		150
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		250

K42

Russian Tube

Reflex

For Radiotechnical And Measuring Purposes In Special Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Glass
Mass		30g
Cooling Method		Natural
Frequency Band		26.5cm
Frequency Band Minimum		20cm
Frequency Band Maximum		33cm
Output Power		80mW
Tuning Range, Mhz		7.5MHz/20cm 5.75MHx/26cm 4.55MHz/33cm
Filament Voltage, V		6.3
Filament Current, A		0.8
Filament Current, A Minimum		0.6
Filament Current, A Maximum		1
Resonator Voltage, V		250
Reflector Negative Voltage, V		125
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		200

K43A

Russian Tube

Reflex

Application As Low-Power Uhf Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,7.2x3.4 waveguide output, mechanical tuning
Mass		150g
Cooling Method		Forced Air
Frequency Band		0.75cm
Frequency Band Minimum		0.7cm
Frequency Band Maximum		0.8cm
Output Power		5mW
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2000
Reflector Negative Voltage, V		207.5
Reflector Negative Voltage, V Minimum		15
Reflector Negative Voltage, V Maximum		400

K43B

Russian Tube

Reflex

Application As Low-Power Uhf Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,7.2x3.4 waveguide output, mechanical tuning
Mass		150g
Cooling Method		Forced Air
Frequency Band		0.85
Frequency Band Minimum		0.8
Frequency Band Maximum		0.9
Output Power		10mW
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2000
Reflector Negative Voltage, V		207.5
Reflector Negative Voltage, V Minimum		15
Reflector Negative Voltage, V Maximum		400

K44

Russian Tube

Reflex

Application As Low-Power Uhf Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,7.2x3.4 waveguide output, mechanical tuning
Mass		150g
Cooling Method		Forced Air
Frequency Band		1cm
Frequency Band Minimum		0.9cm
Frequency Band Maximum		1.1cm
Output Power		5mW
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		1800
Reflector Negative Voltage, V		207.5
Reflector Negative Voltage, V Minimum		15
Reflector Negative Voltage, V Maximum		400

K45

Russian Tube

Reflex

Application As Low-Power Uhf Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,7.2x3.4 waveguide output, mechanical tuning
Mass		150g
Cooling Method		Forced Air
Frequency Band		1.2cm
Frequency Band Minimum		1.1cm
Frequency Band Maximum		1.3cm
Output Power		15mW
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		1800
Reflector Negative Voltage, V		207.5
Reflector Negative Voltage, V Minimum		15
Reflector Negative Voltage, V Maximum		400

K46

Russian Tube

Reflex

Application As Low-Power Uhf Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,11.0x5.5mm waveguide output, mechanical tuning
Mass		180g
Cooling Method		Forced Air
Frequency Band		1.5
Frequency Band Minimum		1.3
Frequency Band Maximum		1.6
Output Power		15mw
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		1500
Reflector Negative Voltage, V		207.5
Reflector Negative Voltage, V Minimum		15
Reflector Negative Voltage, V Maximum		400

K47

Russian Tube

Reflex

Application As Low-Power Uhf Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,11.0x5.5mm waveguide output, mechanical tuning
Mass		180g
Cooling Method		Forced Air
Frequency Band		1.7
Frequency Band Minimum		1.6
Frequency Band Maximum		1.8
Output Power		15mW
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		1200
Reflector Negative Voltage, V		207.5
Reflector Negative Voltage, V Minimum		15
Reflector Negative Voltage, V Maximum		400

K48

Russian Tube

Reflex

Application With Detachable Single-Flow Resonator As Radiorelay Communication Lines Modulator

Specifications		
Name		Value
Cathode Type		L-Type, Indirect Heating
Envelope		Glass
Mass		17g
Cooling Method		Natural
Frequency Band		1900MHz
Frequency Band Minimum		400MHz
Frequency Band Maximum		3400MHz
Output Power		35mW
Tuning Transconductance, Mhz/Ma		1.5
Tuning Range, Mhz		45
Filament Voltage, V		6.3
Filament Current, A		0.9
Filament Current, A Minimum		0.6
Filament Current, A Maximum		1.2
Resonator Voltage, V		180
Reflector Negative Voltage, V		75
Reflector Negative Voltage, V Minimum		30
Reflector Negative Voltage, V Maximum		120

K49

Russian Tube

Reflex

Application As Low-Power Uhf Generator In Measuring Equipment

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	Metal, Waveguide Output, Mechanical Tuning
Mass	160g
Cooling Method	Forced Air
Frequency Band	36780MHz
Frequency Band Minimum	36230MHz
Frequency Band Maximum	37330MHz
Output Power	10mW/36230MHz 12mW/36770MHz 10mW/37330MHz
Tuning Transconductance, Mhz/Ma	5
Tuning Range, Mhz	70
Filament Voltage, V	6.3
Filament Current, A	1
Resonator Voltage, V	1500
Reflector Negative Voltage, V	125
Reflector Negative Voltage, V Minimum	50
Reflector Negative Voltage, V Maximum	200

K60

Russian Tube

Reflex

Application As Heterodine In Special Equipment

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	metal-ceramic,23x10mm waveguide output, mechanical tuning
Mass	200g
Cooling Method	Forced Air
Frequency Band	9375MHz
Frequency Band Minimum	9175MHz
Frequency Band Maximum	9575MHz
Output Power	30mW
Tuning Transconductance, Mhz/Ma	1.8
Tuning Transconductance, Mhz/Ma Minimum	0.7
Tuning Transconductance, Mhz/Ma Maximum	2.8
Tuning Range, Mhz	35
Filament Voltage, V	6.3
Filament Current, A	1.1
Filament Current, A Minimum	0.8
Filament Current, A Maximum	1.3
Resonator Voltage, V	300
Reflector Negative Voltage, V	170
Reflector Negative Voltage, V Minimum	90
Reflector Negative Voltage, V Maximum	250

K60T

Russian Tube

Reflex

Application As Heterodine In Special Equipment

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	metal-ceramic,23x10mm waveguide output, mechanical tuning
Mass	200g
Cooling Method	Forced Air
Frequency Band	9375MHz
Frequency Band Minimum	9175MHz
Frequency Band Maximum	9575MHz
Output Power	30mW
Tuning Transconductance, Mhz/Ma	1.8
Tuning Transconductance, Mhz/Ma Minimum	0.7
Tuning Transconductance, Mhz/Ma Maximum	2.8
Tuning Range, Mhz	35
Filament Voltage, V	6.3
Filament Current, A	1.1
Filament Current, A Minimum	0.8
Filament Current, A Maximum	1.3
Resonator Voltage, V	300
Reflector Negative Voltage, V	170
Reflector Negative Voltage, V Minimum	90
Reflector Negative Voltage, V Maximum	250

K651

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,3.6x1.8mm waveguide output, slow mechanical tuning
Mass		300g
Cooling Method		Forced Air
Frequency Band		77000MHz
Frequency Band Minimum		75000MHz
Frequency Band Maximum		79000MHz
Output Power		5mW
Tuning Transconductance, Mhz/Ma		16
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2400
Reflector Negative Voltage, V		225
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		400

K65A1

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,3.6x1.8mm waveguide output, slow mechanical tuning
Mass		300g
Cooling Method		Forced Air
Frequency Band		77162.5MHz
Frequency Band Minimum		74925MHz
Frequency Band Maximum		79400MHz
Output Power		5mW
Tuning Transconductance, Mhz/Ma		16
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2400
Reflector Negative Voltage, V		225
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		400

K661

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,3.6x1.8mm waveguide output, slow mechanical tuning
Mass		300g
Cooling Method		Forced Air
Frequency Band		72400MHz
Frequency Band Minimum		69800MHz
Frequency Band Maximum		75000MHz
Output Power		5mW
Tuning Transconductance, Mhz/Ma		16
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2400
Reflector Negative Voltage, V		225
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		400

K66A1

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,3.6x1.8mm waveguide output, slow mechanical tuning
Mass		300g
Cooling Method		Forced Air
Frequency Band		72400MHz
Frequency Band Minimum		69725MHz
Frequency Band Maximum		75075MHz
Output Power		5mW
Tuning Transconductance, Mhz/Ma		16
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2400
Reflector Negative Voltage, V		225
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		400

K671

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,3.6x1.8mm waveguide output, slow mechanical tuning
Mass		300g
Cooling Method		Forced Air
Frequency Band		66800MHz
Frequency Band Minimum		63800MHz
Frequency Band Maximum		69800MHz
Output Power		5mW
Tuning Transconductance, Mhz/Ma		16
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2400
Reflector Negative Voltage, V		225
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		400

K67A1

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,3.6x1.8mm waveguide output, slow mechanical tuning
Mass		300g
Cooling Method		Forced Air
Frequency Band		66700MHz
Frequency Band Minimum		63735MHz
Frequency Band Maximum		69665MHz
Output Power		5mW
Tuning Transconductance, Mhz/Ma		16
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2400
Reflector Negative Voltage, V		225
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		400

K681

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,3.6x1.8mm waveguide output, slow mechanical tuning
Mass		300g
Cooling Method		Forced Air
Frequency Band		60750MHz
Frequency Band Minimum		57700MHz
Frequency Band Maximum		63800MHz
Output Power		5mW
Tuning Transconductance, Mhz/Ma		16
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2400
Reflector Negative Voltage, V		225
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		400

K68A1

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,3.6x1.8mm waveguide output, slow mechanical tuning
Mass		300g
Cooling Method		Forced Air
Frequency Band		60752.5MHz
Frequency Band Minimum		57640MHz
Frequency Band Maximum		63865MHz
Output Power		5mW
Tuning Transconductance, Mhz/Ma		16
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2400
Reflector Negative Voltage, V		225
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		400

K691

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,3.6x1.8mm waveguide output, slow mechanical tuning
Mass		300g
Cooling Method		Forced Air
Frequency Band		55150MHz
Frequency Band Minimum		52600MHz
Frequency Band Maximum		57700MHz
Output Power		5mW
Tuning Transconductance, Mhz/Ma		16
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2400
Reflector Negative Voltage, V		225
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		400

K69A1

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,3.6x1.8mm waveguide output, slow mechanical tuning
Mass		300g
Cooling Method		Forced Air
Frequency Band		54980MHz
Frequency Band Minimum		52200MHz
Frequency Band Maximum		57760MHz
Output Power		5mW
Tuning Transconductance, Mhz/Ma		16
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2400
Reflector Negative Voltage, V		225
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		400

K701

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,5.2x2.6mm waveguide output, slow mechanical tuning
Mass		300g
Cooling Method		Forced Air
Frequency Band		47700MHz
Frequency Band Minimum		42800MHz
Frequency Band Maximum		52600MHz
Output Power		5mW
Tuning Transconductance, Mhz/Ma		16
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2000
Reflector Negative Voltage, V		225
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		400

K70A1

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,5.2x2.6mm waveguide output, slow mechanical tuning
Mass		300g
Cooling Method		Forced Air
Frequency Band		51850MHz
Frequency Band Minimum		48700MHz
Frequency Band Maximum		55000MHz
Output Power		5mW
Tuning Transconductance, Mhz/Ma		16
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2000
Reflector Negative Voltage, V		225
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		400

K70B1

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,5.2x2.6mm waveguide output, slow mechanical tuning
Mass		300g
Cooling Method		Forced Air
Frequency Band		45825MHz
Frequency Band Minimum		42850MHz
Frequency Band Maximum		48800MHz
Output Power		5mW
Tuning Transconductance, Mhz/Ma		16
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2000
Reflector Negative Voltage, V		225
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		400

K711

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,5.2x2.6mm waveguide output, slow mechanical tuning
Mass		300g
Cooling Method		Forced Air
Frequency Band		39475MHz
Frequency Band Minimum		36150MHz
Frequency Band Maximum		42800MHz
Output Power		5mW
Tuning Transconductance, Mhz/Ma		16
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2000
Reflector Negative Voltage, V		225
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		400

K71A1

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,5.2x2.6mm waveguide output, slow mechanical tuning
Mass		300g
Cooling Method		Forced Air
Frequency Band		39525MHz
Frequency Band Minimum		36100MHz
Frequency Band Maximum		42950MHz
Output Power		5mW
Tuning Transconductance, Mhz/Ma		16
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		2000
Reflector Negative Voltage, V		225
Reflector Negative Voltage, V Minimum		50
Reflector Negative Voltage, V Maximum		400

K73

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	metal,28.5x12.6mm waveguide output, slow mechanical tuning
Mass	300g
Cooling Method	Forced Air
Frequency Band	7849.5MHz
Frequency Band Minimum	7136MHz
Frequency Band Maximum	8563MHz
Output Power	15mW/7136MHz 20mW/7310MHz 35mW/8563MHz
Tuning Transconductance, Mhz/Ma	2
Tuning Range, Mhz	25
Filament Voltage, V	6.3
Filament Current, A	1.1
Filament Current, A Minimum	0.8
Filament Current, A Maximum	1.3
Resonator Voltage, V	300
Reflector Negative Voltage, V	155
Reflector Negative Voltage, V Minimum	70
Reflector Negative Voltage, V Maximum	240

K73E

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	metal,28.5x12.6mm waveguide output, slow mechanical tuning, screened
Mass	300g
Cooling Method	Forced Air
Frequency Band	7849.5MHz
Frequency Band Minimum	7136MHz
Frequency Band Maximum	8563MHz
Output Power	15mW/7136MHz 20mW/7310MHz 35mW/8563MHz
Tuning Transconductance, Mhz/Ma	2
Tuning Range, Mhz	25
Filament Voltage, V	6.3
Filament Current, A	1.1
Filament Current, A Minimum	0.8
Filament Current, A Maximum	1.3
Resonator Voltage, V	300
Reflector Negative Voltage, V	155
Reflector Negative Voltage, V Minimum	70
Reflector Negative Voltage, V Maximum	240

K74

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	metal,28.5x12.6mm waveguide output, slow mechanical tuning
Mass	300g
Cooling Method	Forced Air
Frequency Band	7172.5MHz
Frequency Band Minimum	6660MHz
Frequency Band Maximum	7685MHz
Output Power	20mW/6811MHz 30mW/7685MHz
Tuning Transconductance, Mhz/Ma	2
Tuning Range, Mhz	20
Filament Voltage, V	6.3
Filament Current, A	1.1
Filament Current, A Minimum	0.8
Filament Current, A Maximum	1.3
Resonator Voltage, V	300
Reflector Negative Voltage, V	202.5
Reflector Negative Voltage, V Minimum	110
Reflector Negative Voltage, V Maximum	295

K75

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal,35x15mm waveguide output, slow mechanical tuning
Mass		300g
Cooling Method		Forced Air
Frequency Band		6652MHz
Frequency Band Minimum		5994MHz
Frequency Band Maximum		7310MHz
Output Power		15mW/5994MHz 20mW/6116MHz 45mW/7310MHz
Tuning Transconductance, Mhz/Ma		2
Tuning Range, Mhz		20
Filament Voltage, V		6.3
Filament Current, A		1.1
Filament Current, A Minimum		0.8
Filament Current, A Maximum		1.3
Resonator Voltage, V		300
Reflector Negative Voltage, V		185
Reflector Negative Voltage, V Minimum		85
Reflector Negative Voltage, V Maximum		285

K75E

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	metal,35x15mm waveguide output, slow mechanical tuning, screened
Mass	300g
Cooling Method	Forced Air
Frequency Band	6652MHz
Frequency Band Minimum	5994MHz
Frequency Band Maximum	7310MHz
Output Power	15mW/5994MHz 20mW/6116MHz 45mW/7310MHz
Tuning Transconductance, Mhz/Ma	2
Tuning Range, Mhz	20
Filament Voltage, V	6.3
Filament Current, A	1.1
Filament Current, A Minimum	0.8
Filament Current, A Maximum	1.3
Resonator Voltage, V	300
Reflector Negative Voltage, V	185
Reflector Negative Voltage, V Minimum	85
Reflector Negative Voltage, V Maximum	285

K76

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	metal,35x15mm waveguide output, slow mechanical tuning, screened
Mass	300g
Cooling Method	Forced Air
Frequency Band	5646MHz
Frequency Band Minimum	5176MHz
Frequency Band Maximum	6116MHz
Output Power	15mW/5167MHz 20mW/5449MHz 45mW/6116MHz
Tuning Transconductance, Mhz/Ma	2
Tuning Range, Mhz	20
Filament Voltage, V	6.3
Filament Current, A	1.1
Filament Current, A Minimum	0.8
Filament Current, A Maximum	1.3
Resonator Voltage, V	300
Reflector Negative Voltage, V	192.5
Reflector Negative Voltage, V Minimum	100
Reflector Negative Voltage, V Maximum	285

K83

Russian Tube

Reflex

Application As Low-Power Generator In Measuring Equipment

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	Metal-Ceramic, Waveguide Output, Mechanical Tuning
Mass	200g
Cooling Method	Natural
Frequency Band	9837.5MHz
Frequency Band Minimum	9675MHz
Frequency Band Maximum	10000MHz
Output Power	30mw
Tuning Transconductance, Mhz/Ma	0.7
Tuning Range, Mhz	25
Filament Voltage, V	6.3
Filament Current, A	1.2
Filament Current, A Minimum	1
Filament Current, A Maximum	1.4
Resonator Voltage, V	300
Reflector Negative Voltage, V	160
Reflector Negative Voltage, V Minimum	70
Reflector Negative Voltage, V Maximum	250

K92A

Russian Tube

Reflex

Application As Continuous Uhf Generator For Radiorelay Communication Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal, Waveguide-Coaxial Output
Mass		2500g
Cooling Method		Forced Air
Frequency Band		3450MHz
Frequency Band Minimum		3350MHz
Frequency Band Maximum		3550MHz
Output Power		800mW
Tuning Transconductance, Mhz/Ma		0.1
Tuning Range, Mhz		16.5
Filament Voltage, V		6.3
Filament Current, A		1.2
Resonator Voltage, V		850
Reflector Negative Voltage, V		350
Reflector Negative Voltage, V Minimum		100
Reflector Negative Voltage, V Maximum		600

K92B

Russian Tube

Reflex

Application As Continuous Uhf Generator For Radiorelay Communication Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal, Waveguide-Coaxial Output
Mass		2500g
Cooling Method		Forced Air
Frequency Band		3600MHz
Frequency Band Minimum		3500MHz
Frequency Band Maximum		3700MHz
Output Power		800mW
Tuning Transconductance, Mhz/Ma		0.1
Tuning Range, Mhz		16.5
Filament Voltage, V		6.3
Filament Current, A		1.2
Resonator Voltage, V		850
Reflector Negative Voltage, V		350
Reflector Negative Voltage, V Minimum		100
Reflector Negative Voltage, V Maximum		600

K92G

Russian Tube

Reflex

Application As Continuous Uhf Generator For Radiorelay Communication Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal, Waveguide-Coaxial Output
Mass		2500g
Cooling Method		Forced Air
Frequency Band		4125MHz
Frequency Band Minimum		4000MHz
Frequency Band Maximum		4250MHz
Output Power		800mW
Tuning Transconductance, Mhz/Ma		0.15
Tuning Range, Mhz		16.5
Filament Voltage, V		6.3
Filament Current, A		1.2
Resonator Voltage, V		850
Reflector Negative Voltage, V		395
Reflector Negative Voltage, V Minimum		190
Reflector Negative Voltage, V Maximum		600

K92V

Russian Tube

Reflex

Application As Continuous Uhf Generator For Radiorelay Communication Equipment

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal, Waveguide-Coaxial Output
Mass		2500g
Cooling Method		Forced Air
Frequency Band		3850MHz
Frequency Band Minimum		3700MHz
Frequency Band Maximum		4000MHz
Output Power		800mW
Tuning Transconductance, Mhz/Ma		0.15
Tuning Range, Mhz		16.5
Filament Voltage, V		6.3
Filament Current, A		1.2
Resonator Voltage, V		850
Reflector Negative Voltage, V		395
Reflector Negative Voltage, V Minimum		190
Reflector Negative Voltage, V Maximum		600

K98A

Russian Tube

Reflex

Application As Pump Oscillator For Quantum And Parametric Amplifiers

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal-ceramic,11x5.5mm waveguide output, slow mechanical tuning
Mass		240g
Cooling Method		Forced Air
Frequency Band		1.6cm
Frequency Band Minimum		1.53cm
Frequency Band Maximum		1.6cm
Output Power		180mW
Tuning Transconductance, Mhz/Ma		1
Tuning Range, Mhz		18
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		1500
Reflector Negative Voltage, V		320
Reflector Negative Voltage, V Minimum		120
Reflector Negative Voltage, V Maximum		520

K98B

Russian Tube

Reflex

Application As Pump Oscillator For Quantum And Parametric Amplifiers

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal-ceramic,11x5.5mm waveguide output, slow mechanical tuning
Mass		240g
Cooling Method		Forced Air
Frequency Band		1.7cm
Frequency Band Minimum		1.62cm
Frequency Band Maximum		1.735cm
Output Power		170mW
Tuning Transconductance, Mhz/Ma		1
Tuning Range, Mhz		22
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		1500
Reflector Negative Voltage, V		300
Reflector Negative Voltage, V Minimum		100
Reflector Negative Voltage, V Maximum		500

K98D

Russian Tube

Reflex

Application As Pump Oscillator For Quantum And Parametric Amplifiers

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal-ceramic,11x5.5mm waveguide output, slow mechanical tuning
Mass		240g
Cooling Method		Forced Air
Frequency Band		3600MHz
Frequency Band Minimum		3500MHz
Frequency Band Maximum		3700MHz
Output Power		300mW
Tuning Transconductance, Mhz/Ma		1
Tuning Range, Mhz		18
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		500
Reflector Negative Voltage, V		320
Reflector Negative Voltage, V Minimum		120
Reflector Negative Voltage, V Maximum		520

K98G

Russian Tube

Reflex

Application As Pump Oscillator For Quantum And Parametric Amplifiers

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal-ceramic,11x5.5mm waveguide output, slow mechanical tuning
Mass		240g
Cooling Method		Forced Air
Frequency Band		1.6cm
Frequency Band Minimum		1.53cm
Frequency Band Maximum		1.6cm
Output Power		180mW
Tuning Transconductance, Mhz/Ma		1
Tuning Range, Mhz		16
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		1500
Reflector Negative Voltage, V		320
Reflector Negative Voltage, V Minimum		120
Reflector Negative Voltage, V Maximum		520

K98V

Russian Tube

Reflex

Application As Pump Oscillator For Quantum And Parametric Amplifiers

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		metal-ceramic,11x5.5mm waveguide output, slow mechanical tuning
Mass		240g
Cooling Method		Forced Air
Frequency Band		1.8cm
Frequency Band Minimum		1.73cm
Frequency Band Maximum		1.85cm
Output Power		170mW
Tuning Transconductance, Mhz/Ma		1
Tuning Range, Mhz		22
Filament Voltage, V		6.3
Filament Current, A		1
Resonator Voltage, V		1300
Reflector Negative Voltage, V		280
Reflector Negative Voltage, V Minimum		60
Reflector Negative Voltage, V Maximum		500

KIU12A

Russian Tube
Pulse, Amplificative
Uhf Signal Amplification

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	metal,90x45mm waveguide output/coaxial input
Mass	60kg
Cooling Method	Forced Water
Frequency Band	2797MHz
Frequency Band Minimum	2790MHz
Frequency Band Maximum	2804MHz
Output Power	20MW output/15kW input in pulse
Gain, Db	31dB
Filament Voltage, V	12
Filament Current, A	45
Pulse Anode Voltage, Kv	300kV

KIU12AM

Russian Tube

Pulse, Amplificative

Amplification Of Uhf Signals To Provide Power Uhf Pulse For Line Accelerators To Phisical Or Medical

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	Metal
Mass	60kg
Cooling Method	Forced Water
Frequency Band	2797MHz
Frequency Band Minimum	2790MHz
Frequency Band Maximum	2804MHz
Output Power	20MW output/10kW input in pulse
Gain, Db	33dB
Filament Voltage, V	12
Filament Current, A	45
Pulse Anode Voltage, Kv	300kV

KIU12B

Russian Tube
Pulse, Amplificative
Uhf Signal Amplification

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	metal,90x45mm waveguide output/coaxial input
Mass	60kg
Cooling Method	Forced Water
Frequency Band	2765MHz
Frequency Band Minimum	2758MHz
Frequency Band Maximum	2772MHz
Output Power	20MW output/15kW input in pulse
Gain, Db	31dB
Filament Voltage, V	12
Filament Current, A	45
Pulse Anode Voltage, Kv	300kV

KIU15

Russian Tube

Pulse, Amplificative

Uhf Signal Amplification In Special Equipment

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	Metal, Waveguide Output/Coaxial Input
Mass	80kg
Cooling Method	Forced Water
Frequency Band	1818MHz
Output Power	30MW in pulse
Gain, Db	37dB
Filament Voltage, V	11.5
Filament Voltage, V Minimum	10.3
Filament Voltage, V Maximum	12.7
Filament Current, A	50
Pulse Anode Voltage, Kv	285kV
Pulse Anode Voltage, Kv Minimum	270kV
Pulse Anode Voltage, Kv Maximum	300kV

KIU17

Russian Tube

Pulse, Amplificative

Uhf Signal Amplification In Special Equipment

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	Metal-Ceramic, Coaxial Input And Output
Mass	23kg
Cooling Method	Forced Water
Frequency Band	1818MHz
Output Power	150kW output/100mW input
Gain, Db	60dB
Filament Voltage, V	3.3
Filament Voltage, V Minimum	2.8
Filament Voltage, V Maximum	3.8
Filament Current, A	30
Pulse Anode Voltage, Kv	50kV

KIU19

Russian Tube

Pulse, Amplificative

Uhf Amplification In Transmitters

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	Metal-Ceramic, Coaxial Input And Output
Mass	20kg
Frequency Band	1030MHz
Frequency Band Minimum	1029.8MHz
Frequency Band Maximum	1030.2MHz
Output Power	75W/35kW in pulse output//3W input
Gain, Db	40dB
Filament Voltage, V	12.6
Filament Current, A	2.4A
Filament Current, A Minimum	2.2A
Filament Current, A Maximum	2.6A
Pulse Anode Voltage, Kv	30kV

KIU41A

Russian Tube

Pulse, Amplificative

Application As Frequency Converter In Power Transmitter

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	Metal-Ceramic With Magnets
Mass	4.5kg
Cooling Method	Conductive
Frequency Band	1243MHz (IF=35MHz)
Output Power	1kW
Filament Voltage, V	6.3
Filament Current, A	1.1
Filament Current, A Minimum	0.8
Filament Current, A Maximum	1.4
Pulse Anode Voltage, Kv	4.5kV

KIU41B

Russian Tube

Pulse, Amplificative

Application As Frequency Converter In Power Transmitter

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	Metal-Ceramic With Magnets
Mass	4.5kg
Cooling Method	Conductive
Frequency Band	1299MHz (IF=35MHz)
Output Power	1kW
Filament Voltage, V	6.3
Filament Current, A	1.1
Filament Current, A Minimum	0.8
Filament Current, A Maximum	1.4
Pulse Anode Voltage, Kv	4.5kV

KS4A

Russian Tube

Reflex, Superminiature

Application As Uhf Generator

Specifications		
Name		Value
Cathode Type		Indirect Heating
Envelope		metal-ceramic,5x23mm waveguide output
Mass		36g
Cooling Method		Conductive
Frequency Band		9700MHz
Frequency Band Minimum		9680MHz
Frequency Band Maximum		9720MHz
Output Power		35mW
Tuning Transconductance, Mhz/Ma		3
Tuning Range, Mhz		100
Filament Voltage, V		3
Filament Current, A		1.2
Filament Current, A Minimum		0.7
Filament Current, A Maximum		1.6
Resonator Voltage, V		85
Reflector Negative Voltage, V		70
Reflector Negative Voltage, V Minimum		20
Reflector Negative Voltage, V Maximum		120

KS5A

Russian Tube

Reflex, Superminiature

Appllication In Air Equipment

Specifications		
Name		Value
Cathode Type		Indirect Heating
Envelope		metal-ceramic,10x23mm waveguide output
Mass		70g
Cooling Method		Conductive
Frequency Band		9315MHz
Output Power		62.5mW
Output Power Minimum		35mW
Output Power Maximum		90mW
Tuning Transconductance, Mhz/Ma		4 to 7
Tuning Range, Mhz		100
Filament Voltage, V		3
Filament Current, A		1.3A
Filament Current, A Minimum		1A
Filament Current, A Maximum		1.5A
Resonator Voltage, V		85
Reflector Negative Voltage, V		75
Reflector Negative Voltage, V Minimum		35
Reflector Negative Voltage, V Maximum		115

KS5B

Russian Tube
Reflex, Superminiature
Appllication In Air Equipment

Specifications		
Name		Value
Cathode Type		Indirect Heating
Envelope		metal-ceramic,10x23mm waveguide output
Mass		70g
Cooling Method		Conductive
Frequency Band		9345MHz
Output Power		62.5mW
Output Power Minimum		35mW
Output Power Maximum		90mW
Tuning Transconductance, Mhz/Ma		4 to 7
Tuning Range, Mhz		100
Filament Voltage, V		3
Filament Current, A		1.3A
Filament Current, A Minimum		1A
Filament Current, A Maximum		1.5A
Resonator Voltage, V		85
Reflector Negative Voltage, V		75
Reflector Negative Voltage, V Minimum		35
Reflector Negative Voltage, V Maximum		115

KS5G

Russian Tube
Reflex, Superminiature
Appllication In Air Equipment

Specifications		
Name		Value
Cathode Type		Indirect Heating
Envelope		metal-ceramic,10x23mm waveguide output
Mass		70g
Cooling Method		Conductive
Frequency Band		9405MHz
Output Power		62.5mW
Output Power Minimum		35mW
Output Power Maximum		90mW
Tuning Transconductance, Mhz/Ma		4 to 7
Tuning Range, Mhz		100
Filament Voltage, V		3
Filament Current, A		1.3A
Filament Current, A Minimum		1A
Filament Current, A Maximum		1.5A
Resonator Voltage, V		85
Reflector Negative Voltage, V		75
Reflector Negative Voltage, V Minimum		35
Reflector Negative Voltage, V Maximum		115

KS5V

Russian Tube

Reflex, Superminiature

Appllication In Air Equipment

Specifications		
Name		Value
Cathode Type		Indirect Heating
Envelope		metal-ceramic,10x23mm waveguide output
Mass		70g
Cooling Method		Conductive
Frequency Band		9375MHz
Output Power		62.5mW
Output Power Minimum		35mW
Output Power Maximum		90mW
Tuning Transconductance, Mhz/Ma		4 to 7
Tuning Range, Mhz		100
Filament Voltage, V		3
Filament Current, A		1.3A
Filament Current, A Minimum		1A
Filament Current, A Maximum		1.5A
Resonator Voltage, V		85
Reflector Negative Voltage, V		75
Reflector Negative Voltage, V Minimum		35
Reflector Negative Voltage, V Maximum		115

KU103

Russian Tube

Amplificative

Application As Aplifier And Freq.Converter In Radiorelay Communicators

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	Metal, Waveguide Output, Mechanical Tuning
Mass	1.1kg
Cooling Method	Forced Air
Frequency Band	6175MHz
Frequency Band Minimum	5965MHz
Frequency Band Maximum	6385MHz
Output Power	3W
Gain, Db	7.8dB
Filament Voltage, V	6.3
Filament Current, A	2.3
Resonator Voltage, V	500

KU301

Russian Tube

Amplificative

Application As Last-Stage Power Amplifier In Transmitter

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal
Mass		65kg
Cooling Method		Forced Air
Frequency Band		30.5cm
Frequency Band Minimum		30cm
Frequency Band Maximum		31cm
Output Power		10kW
Gain, Db		40dB
Filament Voltage, V		8
Filament Current, A		62.5
Filament Current, A Minimum		55
Filament Current, A Maximum		70
Pulse Anode Voltage, Kv		15kV
Pulse Anode Voltage, Kv Minimum		14kV
Pulse Anode Voltage, Kv Maximum		16kV

KU302

Russian Tube

Amplificative

Application As Last-Stage Power Amplifier In Transmitter

Specifications		
Name		Value
Cathode Type		Oxide, Indirect Heating
Envelope		Metal
Mass		80kg
Cooling Method		Forced Air
Frequency Band		38.6cm
Frequency Band Minimum		38cm
Frequency Band Maximum		39.2cm
Output Power		10kW
Gain, Db		40dB
Filament Voltage, V		8
Filament Current, A		62.5
Filament Current, A Minimum		55
Filament Current, A Maximum		70
Pulse Anode Voltage, Kv		15kV
Pulse Anode Voltage, Kv Minimum		14kV
Pulse Anode Voltage, Kv Maximum		16kV

KU304

Russian Tube

Amplificative

Applification As Last-Stage Power Amplifier In Transmitter

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	Metal
Mass	65kg
Cooling Method	Forced Water
Frequency Band	36.5cm
Frequency Band Minimum	36cm
Frequency Band Maximum	37cm
Output Power	10kW
Gain, Db	36dB
Filament Voltage, V	7
Filament Current, A	41
Filament Current, A Minimum	37
Filament Current, A Maximum	45
Pulse Anode Voltage, Kv	13kV
Pulse Anode Voltage, Kv Minimum	12kV
Pulse Anode Voltage, Kv Maximum	14kV

KU309

Russian Tube

Amplificative

Application As Last-Stage Power Amplifier In Transmitter

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	Metal
Mass	60kg
Cooling Method	Forced Water
Frequency Band	550MHz
Frequency Band Minimum	470MHz
Frequency Band Maximum	630MHz
Output Power	3kW
Gain, Db	40dB
Filament Current, A	32
Pulse Anode Voltage, Kv	10kV

KU310

Russian Tube

Amplificative

Applification As Last-Stage Power Amplifier In Transmitter

Specifications	
Name	Value
Cathode Type	Oxide, Indirect Heating
Envelope	Metal
Mass	75kg
Cooling Method	Forced Water
Frequency Band	550MHz
Frequency Band Minimum	470MHz
Frequency Band Maximum	630MHz
Output Power	15kw
Gain, Db	30dB
Filament Current, A	45
Pulse Anode Voltage, Kv	19kV

KU315A

Russian Tube

Amplificative

Application As Power Amplifier In Transmitters

Specifications	
Name	Value
Cathode Type	Impregnated, Indirect Heating
Envelope	Metal-Ceramic, Waveguide Input And Output
Mass	4kg
Cooling Method	Forced Water
Frequency Band	4495MHz
Frequency Band Minimum	4435MHz
Frequency Band Maximum	4555MHz
Output Power	3.3kW
Gain, Db	40dB
Filament Voltage, V	12.6
Filament Current, A	2.6
Filament Current, A Minimum	2.3
Filament Current, A Maximum	2.8
Pulse Anode Voltage, Kv	10kV
Pulse Anode Voltage, Kv Minimum	9kV
Pulse Anode Voltage, Kv Maximum	11kV

KU315B

Russian Tube

Amplificative

Application As Power Amplifier In Transmitters

Specifications	
Name	Value
Cathode Type	Impregnated, Indirect Heating
Envelope	Metal-Ceramic, Waveguide Input And Output
Mass	4kg
Cooling Method	Forced Water
Frequency Band	4690MHz
Frequency Band Minimum	4630MHz
Frequency Band Maximum	4750MHz
Output Power	3.3kW
Gain, Db	40dB
Filament Voltage, V	12.6
Filament Current, A	2.6
Filament Current, A Minimum	2.3
Filament Current, A Maximum	2.8
Pulse Anode Voltage, Kv	10kV
Pulse Anode Voltage, Kv Minimum	9kV
Pulse Anode Voltage, Kv Maximum	11kV

KU316

Russian Tube

Amplificative

Application As Power Amplifier In Transmitters

Specifications	
Name	Value
Cathode Type	Impregnated, Indirect Heating
Envelope	Metal-Ceramic, Waveguide Output/Coaxial Input
Mass	4kg
Frequency Band	4287MHz
Output Power	3.3kW
Gain, Db	40dB
Filament Voltage, V	12.6
Filament Current, A	2.8
Pulse Anode Voltage, Kv	10kV
Pulse Anode Voltage, Kv Minimum	9kV
Pulse Anode Voltage, Kv Maximum	11kV