Subminiature Russian Rod Pentodes

All direct heated filament/cathode and about 8mm to 10mm glass with Anode on top wire.

For reliable longest life operate at less than 1.4V and more than 0.9V filament (not direct from Zinc, Alkaline, NiMH cells) and operate at less than maximum currents and voltages.

In English transliteration the **X** Cyrillic Character may be written j, sh, zh, SH or ZH

Typical Filament mA currents for 1.35V. VG2 is minimum at quoted HT and HT is "typical" not maximum

RL1 = Approx min Anode load for max power (K Ohms at listed HT).

RL2 = Approx max Anode Load for max gain, small signal (K Ohms at listed HT) qm listed is below max listed but above minimum listed for 0.95V filament. It varies with HT and filament current more than 2:1

Pa is maximum Power, likely at higher HT than listed.

Valve	Cyrillic	f mA	IaVg1=0	Vg_2	HT	Pa	gm	IkMax	RL1	RL2	Notes
1j17b	1Ж17Б	49	2.0	45	60	120	0.9	5.0	12	56	Early model
1j18b	1Ж18Б	24	0.9	45	60	80	0.9	5.0	18	100	G3 & shield tied to f- wire, low Cag
1j24b	1Ж24Б	13	0.8	45	60	25	0.7	1.6	27	180	Lowest filament power Rod Pentode
1j29b	1Ж29Б	54	5.5	90	90	300	2.0	8.0	10	39	CT filament @ 26mA Series
1j29b-v	1Ж29Б-В	54	5.5	90	90	300	2.0	8.0	10	39	CT filament @ 26mA Series, more durable
1j29b-r	1Ж29Б-Р	54	5.5	90	90	300	2.0	8.0	10	39	CT filament @ 26mA Series, Reliable & most Durable
1j37b	1Ж37Б	59	2.5	45	60	150	1.1	4.5	10	56	Dual G1 (1.5pF G1A, G1B) and no Shields. Mixer or AGC (not Osc/Mixer)
1p24b	1П24Б	198	18	120	150	2500	2.5	25	5	22	CT filament @ 98mA Series. 1W G2 and 800W peak
1p24b-v	1П24Б-В	198	18	120	150	2500	2.5	25	5	22	CT filament @ 98mA Series, more durable