

Pre-Octals					Octals					Loktals and Minis		
Type	Description	Voltage	Pins	Cap?	Type	Description	Voltage	Cap?	Type	Description	Voltage	
01A	Triode	5.0DC	4		1A5	Power Pentode	1.5DC		1LA4	Power Pentode	1.5 DC	
10	Power Triode	7.5	4		1A7	Converter-Mixer	1.5DC	x	1LA6	Converter-Mixer	1.5 DC	
11	Triode	1.1DC	4		1C5	Power Pentode	1.5DC		1LB4	Power Pentode	1.5 DC	
12	Triode	1.1DC	4		1C7	Converter-Mixer	2.0DC	x	1LC5	SC Pentode	1.5 DC	
12A	Power Triode	5.0DC	4		1D5	RC Pentode	2.0DC	x	1LC6	Converter-Mixer	1.5 DC	
15	SC Pentode	2.0	5	x	1D7	Converter-Mixer	2.0DC	x	1LD5	Diode-Pentode	1.5 DC	
19	Dual Power Triode	2.0DC	6		1E5	SC Pentode	2.0DC	x	1LE3	Medium-Mu Triode	1.5 DC	
20	Power Triode	3.3DC	4		1E7	Dual Pwr Pentode	2.0DC		1LH4	Diode-Triode	1.5 DC	
22	SC Pentode	3.3DC	4	x	1F5	Power Pentode	2.0DC		1LN5	SC Pentode	1.5 DC	
24/24A	SC Tetrode	2.5	5	x	1F7	Duodiode Pentode	2.0DC	x	3LF4	Power Pentode	1.5/3.0DC	
26	Triode	1.5AC	4		1G4	Triode	1.5DC		7A4	Medium-Mu Triode	6.3	
27	Triode	2.5	5		1G5	Power Pentode	2.0DC		7A5	Power Pentode	6.3	
30	Triode	2.0DC	4		1G6	Dual Power Triode	1.5DC		7A6	Dual Diode	6.3	
31	Power Triode	2.0DC	4		1H4	Triode	2.0DC		7A7	RC Pentode	6.3	
32	SC Tetrode	2.0DC	4	x	1H5	Diode-Triode	1.5DC	x	7A8	Converter-Mixer	6.3	
33	Power Pentode	2.0DC	5		1H6	Duodiode Triode	2.0DC		7B4	Hi-Mu Triode	6.3	
34	RC Pentode	2.0DC	4	x	1J5	Power Pentode	2.0DC		7B5	Power Pentode	6.3	
35 51	RC Tetrode	2.5	5	x	1J6	Dual Power Triode	2.0DC		7B6	Duodiode Triode	6.3	
36	SC Tetrode	6.3	5	x	1N5	SC Pentode	1.5DC	x	7B7	RC Pentode	6.3	
37	Triode	6.3	5		1P5	RC Pentode	1.5DC	x	7B8	Converter-Mixer	6.3	
38	Power Pentode	6.3	5	x	1Q5	Power Pentode	1.5DC		7C5	Power Pentode	6.3	
39 44	RC Pentode	6.3	5	x	1T5	Power Pentode	1.5DC		7C6	Duodiode Triode	6.3	
40	Triode	5.0DC	4		3Q5	Power Pentode	1.5/3.0DC		7C7	SC Pentode	6.3	
41	Power Pentode	6.3	6		5T4	Rectifier	5.0 AC		7E6	Duodiode Triode	6.3	
42	Power Pentode	6.3	6		5U4	Rectifier	5.0 AC		7F7	Dual Hi-Mu Triode	6.3	
43	Power Pentode	25	6		5V4	Rectifier	5.0 AC		7F8	Dual Med-Mu Triode	6.3	
44	see 39/44				5W4	Rectifier	5.0 AC		7G7/1232	SC Pentode	6.3	
45	Power Triode	2.5	4		5X4	Rectifier	5.0 AC		7H7	RC Pentode	6.3	
46	Power Tetrode	2.5	5		5Y3	Rectifier	5.0 AC		7J7	Converter-Mixer	6.3	
47	Power Pentode	2.5	5		5Y4	Rectifier	5.0 AC		7L7	SC Pentode	6.3	
48	Power Pentode	30 DC	6		5Z4	Rectifier	5.0 AC		7N7	Dual Med-Mu Triode	6.3	
49	Dual-Grid Pwr Tetr	2.0DC	5		6A8	Converter-Mixer	6.3	x	7Q7	Converter-Mixer	6.3	
50	Power Triode	7.5	4		6B4	Power Triode	6.3		7V7	SC Pentode	6.3	
51	see 35/51				6B6	Duodiode Triode	6.3	x	7Y4	Rectifier	6.3	
53	Dual Power Triode	2.5	7		6B8	Duodiode Pentode	6.3	x	7Z4	Rectifier	6.3	
55	Duodiode Triode	2.5	6	x	6C5	Triode	6.3		35A5	Power Pentode	35	
56	Triode	2.5	5		6D8	Converter-Mixer	6.3	x	35Y4	Rectifier	35	
57	SC Pentode	2.5	6	x	6F5	Hi-Mu Triode	6.3	x	35Z3	Rectifier	35	
58	RC Pentode	2.5	6	x	6F6	Power Pentode	6.3		50A5	Power Pentode	50	
59	Trpl Grid Pwr Pent	2.5	7		6F8	Dual Hi-Mu Triode	6.3	x				
71A	Power Triode	5.0 DC	4		6G6	Power Pentode	6.3		Type	Description	Voltage	
75	Duodiode Triode	6.3	6	x	6H6	Dual Diode	6.3		1L4	SC Pentode	1.5 DC	
76	Triode	6.3	5		6J5	Triode	6.3		1L6	Converter-Mixer	1.5 DC	
77	SC Pentode	6.3	6	x	6J7	SC Pentode	6.3	x	1R5	Converter-Mixer	1.5 DC	
78	RC Pentode	6.3	6	x	6J8	Converter-Mixer	6.3	x	1S4	Power Pentode	1.5 DC	
79	Dual Power Triode	6.3	6	x	6K5	Hi-Mu Triode	6.3	x	1S5	Diode-Pentode	1.5 DC	
80	Rectifier	5.0 AC	4		6K6	Power Pentode	6.3		1T4	RC Pentode	1.5 DC	
81	Rectifier	7.5 AC	4		6K7	RC Pentode	6.3	x	1U4	SC Pentode	1.5 DC	
82	Mercury Rectifier	2.5 AC	4		6K8	Converter-Mixer	6.3	x	1U5	Diode-Pentode	1.5 DC	
83	Mercury Rectifier	5.0 AC	4		6L5	Triode	6.3		3Q4	Power Pentode	1.5/3.0 DC	
83-V	Rectifier	5.0 AC	4		6L6	Power Pentode	6.3		3S4	Power Pentode	1.5/3.0 DC	
84 6Z4	Rectifier	6.3 AC	5		6L7	Mixer	6.3	x	3V4	Power Pentode	1.5/3.0 DC	
85	Duodiode Triode	6.3	6	x	6N6	Power Output	6.3		6C4	Triode	6.3	
89	Triple Grid Pwr Pent	6.3	6	x	6N7	Dual Power Triode	6.3		6J6	Dual Triode	6.3	
99	Triode	3.3 DC	4		6P5	Triode	6.3		6X4	Rectifier	6.3	
950	Power Pentode	2.0DC	5		6Q7	Duodiode Triode	6.3	x	6AG5	SC Pentode	6.3	
1-V 6Z3	Rectifier	6.3 AC	4		6R7	Duodiode Triode	6.3	x	6AL5	Dual Diode	6.3	
1A4	RC Tetrode/Pentode	2.0DC	4	x	6S7	RC Pentode	6.3	x	6AQ5	Power Pentode	6.3	
1A6	Converter-Mixer	2.0DC	6	x	6S8	Triodiode-Triode	6.3	x	6AQ6	Duodiode Triode	6.3	
1B4	SC Pentode	2.0DC	4	x	6T7	Duodiode Triode	6.3	x	6AT6	Duodiode Triode	6.3	
1B5/25S	Duodiode Triode	2.0DC	6		6U7	RC Pentode	6.3	x	6AU6	SC Pentode	6.3	
1C6	Converter-Mixer	2.0DC	6	x	6V6	Power Pentode	6.3		6AU7	Dual Hi-Mu Triode	6.3	
1F4	Power Pentode	2.0DC	6		6W6	Power Pentode	6.3		6AV6	Duodiode Triode	6.3	
1F6	Duodiode Pentode	2.0DC	6	x	6W7	SC Pentode	6.3	x	6AX7	Dual Hi-Mu Triode	6.3	
2A3	Power Triode	2.5	4		6X5	Rectifier	6.3		6BA6	RC Pentode	6.3	
2A5	Power Pentode	2.5	6		6Y6	Power Pentode	6.3		6BA7	Converter-Mixer	6.3	
2A6	Duodiode Triode	2.5	6	x	6AC5	Power Triode	6.3		6BD6	RC Pentode	6.3	
2A7	Converter-Mixer	2.5	7	x	6AC7	SC Pentode	6.3		6BE6	Converter-Mixer	6.3	
2B7	Duodiode Pentode	2.5	7	x	6AF6	Eye Tube	6.3		6BF6	Duodiode Triode	6.3	
5Z3	Rectifier	5.0 AC	4		6AL7	Eye Tube	6.3		6BH6	SC Pentode	6.3	
6A3	Power Triode	6.3	4		6AX5	Rectifier	6.3		6BJ6	RC Pentode	6.3	
6A4/LA	Power Pentode	6.3	5		6SA7	Converter-Mixer	6.3		6T8	Triodiode-Triode	6.3	
6A6	Dual Power Triode	6.3	7		6SB7Y	Converter-Mixer	6.3		12AT7	Twin Tri Converter	12.6	
6A7	Converter-Mixer	6.3	7	x	6SC7	Dual Triode	6.3		35B5	Power Pentode	35	
6B5	Power Output	6.3	6		6SF5	Hi-Mu Triode	6.3		35C5	Power Pentode	35	
6B7	Duodiode Pentode	6.3	6	x	6SF7	Diode-Pentode	6.3		35W4	Rectifier	35	
6C6	SC Pentode	6.3	6	x	6SG7	RC Pentode	6.3		50B5	Power Pentode	50	
6D6	RC Pentode	6.3	6	x	6SH7	SC Pentode	6.3		50C5	Power Pentode	50	
6E5	Eye Tube	6.3	6		6SJ7	SC Pentode	6.3		117Z3	Rectifier	117	
6F7	Triode-Pentode	6.3	7	x	6SK7	RC Pentode	6.3					
6G5 6U5	Eye Tube	6.3	6		6SL7	Dual Hi-Mu Triode	6.3					
6N5 6AB5	Eye Tube	6.3	6		6SN7	Dual Hi-Mu Triode	6.3					
6Z3	see 1-V				6SQ7	Duodiode Triode	6.3					
6Z4	see 84				6ZY5	Rectifier	6.3					
	Octals				25A6	Power Pentode	25					
117L7/M7	Pwr Pent/Rectifier	117			25L6	Power Pentode	25					
117N7	Pwr Pent/Rectifier	117			25Z6	Voltage Dblr/Rectifier	25					
117P7	Pwr Pent/Rectifier	117			35L6	Power Pentode	35					
117Z6	Rectifier	117			35Z5	Rectifier	35					
0Z4	Rectifier	0			50L6	Power Pentode	50					

12*** tubes: Many 12V tubes have a 6V equiv (i.e. 12SA7, see 6SA7). All 12.6V heater 12A4, 12A5, 12A6, 12A7 do not match 6V types

14*** tubes: Look in Loktal tube list for similar 6V tubes (i.e. 14A7, see 7A7). All 12.6V heater

*Diode-Triode and *Diode-Pentode Tubes Are Det-AVC-1st Audio Tubes.

Commonly Used Radio Tubes

Type	Base	Voltage	General Purpose Triodes	Sharp-Cutoff Tetrodes & Pentodes	Remote-Cutoff Tetrodes & Pentodes	Power Triodes	Dual Power Triodes	Power Pentodes	Converter-Mixers	Det-AVC-1 st Audio Tubes	Dual Diode	Hi-Mu Triode	Dual General Purpose Triodes
------	------	---------	-------------------------	----------------------------------	-----------------------------------	---------------	--------------------	----------------	------------------	-------------------------------------	------------	--------------	------------------------------

AC	Pre-Octal	1.5	26										
		7.5					10 50						
		2.5	27 56	24/24A 57	35 51 58	45 2A3	53	47 2A5 59	2A7	55 2A6 2B7			
		6.3	37 76	36 77 6C6	39 44 78 6D6	6A3	79 6A6	38 41 42 89 6A4	6A7	75 85 6B7 6F7			
	Octal	6.3	6C5 6J5 6P5	6J7 6W7	6K7 6U7	6B4	6N7	6F6 6K6	6A8 6J8 6K8 6L7	6B6 6Q7 6R7 6B8 6F8	6H6	6F5 6K5	
		6.3	6L5		6S7			6G6	6D8	6T7			
		6.3		6SJ7 6SH7 6AC7	6SK7 6SG7			6L6 6V6 6W6 6Y6	6SA7 6SB7Y	6SQ7 6SF7 6S8		6SF5	6SL7 6SN7 6SC7
Loktal	6.3	7A4	7C7 7G7/1232 7L7 7V7	7A7 7B7 7H7			7A5 7B5 7C5	7A8 7B8 7J7 7Q7	7B6 7C6 7E6	7A6	7B4	7F7 7N7 7F8	
Mini	6.3	6C4	6AU6 6AG5 6BH6	6BA6 6BD6 6BJ6			6AQ5	6BE6 6BA7	6T8 6AQ6 6AT6 6AV6 6BF6	6AL5		6AU7 6AX7 6J6	

AC for Series String Chassis	Pre-Octal	25						43					
	Octal	12.6+	12J5	12J7	12K7			25A6	12A8	12Q7	12H6		
		12.6+		12SJ7	12SK7 12SG7			25L6 35L6 50L6	12SA7	12SQ7			
	Loktal	12.6+	14A4	14C7	14A7 14H7			35A5 50A5	14B8 14J7 14Q7	14B6 14E6			14F7 14N7
Mini	12.6+		12AU6	12BA6 12BD6			35B5 50B5 35C5 50C5	12BE6 12BA7 12AT7	12AV6 12AT6 19T8	12AL5		12AU7 12AX7	

Battery DC	Pre-Octal	5.0	01A			12A 71A							
		1.1	11 12										
		3.3	99	22			20						
		2.0	30	32 1B4 15	34 1A4	31	19	33 950 1F4	1A6 1C6	1B5/25S 1F6			
	Octal	2.0	1H4	1E5	1D5		1J6	1F5 1G5 1J5	1C7 1D7	1H6 1F7			
		1.5	1G4	1N5	1P5		1G6	1A5 1C5 1T5 1/3Q5	1A7	1H5			
		Loktal	1.5	1LE3	1LC5 1LN5			1LA4 1LB4 3LF4	1LA6 1LC6	1LD5 1LH4			
	Mini	1.5		1L4 1U4	1T4			1S4 3Q4 3V4 3S4	1R5 1L6	1U5 1S5			

Base	Voltage	Type	AC Power Rectifiers	
Pre-Octal	5.0	Full Wave 125ma	80	
		Full Wave 175ma	83V	
		Full Wave 225ma	5Z3	
			Mercury Vapor	83
	2.5	Mercury Vapor	82	
	6.3	Full Wave	84 6Z4	
		Half Wave	1-V 6Z3	
7.5	Half Wave	81		
12.6	Half Wave	12Z3		
Octal	5.0	Full Wave 100ma	5W4	
		Full Wave 125ma	5Y3 5Y4 5Z4	
		Full Wave 175ma	5V4	
		Full Wave 225ma	5U4 5T4 5X4	
	6.3	Full Wave	6X5 6ZY5 6AX5	
		Half Wave	35Z5 45Z5 25Z6	
	117	Full Wave	117Z6	
	117	HW+Pwr Pentode	117L7/M7 117N7 117P7	
0	Full Wave Gas	0Z4		
Loktal	6.3	Full Wave	7Y4 7Z4	
	35	Half Wave	35Y4 35Z3	
Mini	6.3	Full Wave	6X4	
	35+	Half Wave	35W4 117Z3	

Misc Tube Types	Base	Voltage	Function
40	Pre-Octal	5.0VDC	Medium-Mu Triode
46	Pre-Octal	2.5VDC	Power Tetrode
48	Pre-Octal	30VDC	Power Pentode
49	Pre-Octal	2.0VDC	Dual Grid Power Tetrode
6B5	Pre-Octal	6.3VAC	Direct Coupled Power Triode
6N6	Octal	6.3VAC	Direct Coupled Power Triode
6AC5	Octal	6.3VAC	Power Triode
1E7	Octal	2.0VDC	Twin Power Pentode
6E5	Pre-Octal	6.3VAC	Eye Tube Sharp Cutoff
6G5 6U5 6T5	Pre-Octal	6.3VAC	Eye Tube Remote Cutoff
6N5 6AB5	Pre-Octal	6.3VAC	Eye Tube Remote Cutoff
6AF6	Octal	6.3VAC	Eye Tube
6AL7	Octal	6.3VAC	Eye Tube AM-FM

Boldface types are used extensively in collectible radios.