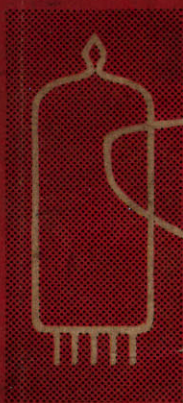


NUMBER

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LIST



teletubes and valves

BRIMAR

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BRIMAR VALVES

Type Number	Base	Application	Heater		Anode Voltage Normal	Screen Voltage Normal	Grid Voltage Normal	Amplification Factor	Mutual Conductance mA/V	Optimum Load Ohms	Auto Bias Resistor	Power Output Watts
			Volts	Amps								
OZ4	1	Car Radio Rectifier	—	—	Max. A.C. Voltage per Anode 350 R.M.S.	—	—	—	Rectified Current 30 mA min. 75 mA max.	—	—	—
● 1A5GT	2	Battery Power Pent.	1.4	0.05	90	45	0/-3	—	0.85	25,000	—	0.115
● 1A7G/GT	3	Battery F.C.	1.4	0.05	90	45	0/-3	—	250†	—	—	—
● 1AC6	4	Battery Heptode F.C.	1.4	0.05	85	60.0	0/-6	—	325†	—	—	—
● 1C5G/GT	2	Battery Power Pent.	1.4	0.10	90	90	-7.5	—	1.55	8000	—	0.24
● 1D5	7	A.C./D.C. Rectifier	40.0	0.2	Max. A.C. Voltage 250V R.M.S.	—	—	—	—	Max. D.C. output 100 mA	—	—
● 1D6	56	A.C./D.C. Rectifier	25.0	0.3	Max. A.C. Voltage 250V R.M.S.	—	—	—	—	Max. D.C. output 100 mA	—	—
● 1H5G/GT	5	Battery Diode Triode	1.4	0.05	90	—	0	65	0.275	—	—	—
● 1L4	6	Battery R.F. Pentode	1.4	0.05	90	67.5	0	—	0.925	—	—	—
● 1R5	8	Battery Heptode F.C.	1.4	0.05	90	67.5	0/-14	—	300†	—	—	—
● 1S4	9	Battery Beam Tetrode	1.4	0.1	90	67.5	-7	—	1.58	8000	—	0.27
● 1S5	10	Battery Diode Pentode	1.4	0.05	67.5	67.5	0	—	0.63	—	—	—
● 1T2**/R16**	—	E.H.T. Rectifier	1.4	0.14	Max. Peak Inverse Voltage 15 kV.	—	—	—	Max. D.C. Output 2 mA.	—	—	—
● 1T4	6	Battery Pent. Vari-Mu	1.4	0.05	90	67.5	0/-16	—	0.9	—	—	—
● 1U5	11	Battery Diode Pentode	1.4	0.05	90	67.5	0	—	0.63	—	—	—
● 2A3	107	Power Triode	2.5	2.5	250	—	-45	4.2	5.25	2500	750	3.5
● 3D6	108	Battery Beam Tetrode	2.8	0.11	135	90	-4.5	—	2.4	12000	—	0.5
● 3G4	12	Battery Beam Tetrode	1.4	0.22	1.4(2.8)	90	-4.5	—	2.15	10,000	—	0.27
● 3Q5G/GT	13	Battery Beam Tetrode	1.4(2.8)	0.1(0.05)	90	90	-4.5	—	2.2	8000	—	0.27
● 3V4	14	Battery Beam Tetrode	1.4(2.8)	0.1(0.05)	90	90	-4.5	—	2.00	10,000	—	0.24
● 3S4	12	Battery Beam Tetrode	2.8	0.15	90	67.5	-7	—	1.58	8000	—	0.27
● 4D1	109	A.C./D.C. Triode	2.8	0.05	90	67.5	-7	—	1.42	8000	—	0.24
● 5U4G	15	A.C. Rectifier	5.0	3.0	Max. A.C. Voltage Per Anode 450 R.M.S.	—	-3.0	40	4.0	—	300	—
● 5V4G	16	"	5.0	2.0	Max. A.C. Voltage Per Anode 375 R.M.S.	—	—	—	Max. D.C. Output 225 Milliamps	—	—	—
● 5Y3G/GT	15	"	5.0	2.0	Max. A.C. Voltage Per Anode 350 R.M.S.	—	—	—	Max. D.C. Output 175 Milliamps	—	—	—
● 5Z3	110	A.C. Rectifier (DH)	5.0	3.0	Max. A.C. Voltage Per Anode 450V R.M.S.	—	—	—	Max. D.C. Output 125 Milliamps	—	—	—
● 5Z4G	16	"	5.0	2.0	Max. A.C. Voltage Per Anode 350 R.M.S.	—	—	—	Max. D.C. Output 225 mA	—	—	—
● 6A7	111	Heptode F.C.	6.3	0.3	Characteristics as type 6A8G/GT	—	—	—	—	—	—	—
● 6A8G/GT	17	Frequency Changer	6.3	0.3	250	100	-3/-35	16	550†	—	300	—
● 6AF4A	100	U.H.F. Oscillator	6.3	0.225	100	—	—	—	7.5	—	150	—

†Conversion conductance in micromhos. **Wire ended valve. ● Obsolete type.

Type Number	Base	Application	Heater		Anode Voltage Normal	Screen Voltage Normal	Grid Voltage Normal	Amplification Factor	Mutual Conductance mA/V	Optimum Load Ohms	Auto Bias Resistor	Power Output Watts
			Volts	Amps.								
6AG6G	18	Power Pentode	6.3	1.2	250	250	-6	—	10.0	8500	150	3.75
6AK5	112	R.F. Pentode	6.3	0.175	180	120	-2/-8.5	—	5.1	—	180	—
6AK6	19	Power Pentode	6.3	0.15	180	180	-9	—	2.3	10,000	520	1.1
6AL5	20	Double Diode	6.3	0.3	Max. A.C. Voltage Per Anode 150 R.M.S.	—	—	—	—	—	—	—
6AM4	101	U.H.F. Amplifier	6.3	0.225	200	—	—	85	9.8	—	100	—
6AM5	21	Power Pentode	6.3	0.2	250	250	-13.5	—	2.6	16,000	680	1.4
6AP6/8D3	22	R.F. Pentode	6.3	0.3	250	250	-2.0	—	7.5	—	160	—
6AQ5	23	Output Beam Tetrode	6.3	0.45	250	250	-12.5	—	4.1	5000	250	4.5
6AT6	24	Double Diode Triode	6.3	0.3	250	250	-2.0	70	1.2	—	—	—
6AU6	25	R.F. Pentode	6.3	0.3	250	150	-1	—	5.2	—	68	—
6AV6	24	Double Diode Triode	6.3	0.3	250	250	-2.0	100	1.6	—	—	—
6B4	113	Power Triode	6.3	1.0	250	125	-45	—	5.25	2500	750	3.5
6B8G/GT	26	Double Diode Pentode	6.3	0.3	250	100	-3	—	1.12	—	250	—
6BA6	25	Vari-Mu R.F. Pentode	6.3	0.3	250	100	-1/-21	—	4.4	—	68	—
6BE6	27	Heptode F.C.	6.3	0.3	250	100	-1.5/-30	—	475†	—	—	—
6BG6G	28	Line Output Tetrode	6.3	0.9	300	250	-18.0	—	6.0	—	—	—
6BH6	29	R.F. Pentode	6.3	0.15	250	150	-1	—	4.6	—	100	—
6BL6	29	Vari-Mu R.F. Pentode	6.3	0.15	250	100	-1/-20	—	3.8	—	82	—
6BQ7A	102	V.H.F. Double Triode	6.3	0.4	150	—	—	39	6.4	—	220	—
6BR7/8D5	30	Low Noise A.F. Pentode	6.3	0.15	250	100	-3	—	1.25	—	1200	—
6BR8	75	Triode-Pentode	6.3	0.45	250	110	—	33.4	5.2	—	68	—
6BW6	31	Output Beam Tetrode	6.3	0.45	250	250	-12.5	—	4.1	5000	250	4.5
6BW7	32	R.F. Pentode	6.3	0.3	250	250	-2.5	—	8.2	—	180	—
6CA	33	R.F. Power Triode	6.3	0.15	250	180	-1.5	—	9.0	—	100	—
6CSG	34	Triode	6.3	0.3	250	—	-8.5	17	2.2	—	—	5.5‡
6C6	114	R.F. Pentode	6.3	0.3	250	—	-8	20	2.0	—	—	—
6CD6G	35	Line Output Tetrode	6.3	0.3	250	100	-3/-7	—	1.2	—	1200	—
6CH6	36	Video Output Pentode	6.3	2.5	200	150	-30	—	6.7	—	—	—
6D6	114	Vari-Mu R.F. Pentode	6.3	0.3	250	250	-4.5	—	11	—	—	—
6E6G	17	Power Pentode	6.3	0.3	250	100	-3/-50	—	1.6	—	300	—
6E6G/GT	37	Double Diode	6.3	0.7	250	250	-16.5	—	2.5	7000	410	3.2
6E5G/GT	38	Triode	6.3	0.3	—	—	—	—	—	—	—	—
6E6	115	Double Triode	6.3	0.3	250	100	-8	20	2.6	—	—	—
6E7G/GT	39	R.F. Pentode	6.3	0.3	250	100	-3	38	5.3	—	50	3.5‡
6E6	18	Output Pentode	6.3	0.4	250	125	-18	—	1.25	—	—	—
6E7G/GT	40	Vari-Mu R.F. Pentode	6.3	0.3	250	250	-3/-52	—	2.3	7600	500	3.4
6E8G/GT	41	Triode Hexode F.C.	6.3	0.3	250	100	-3/-30	—	1.65	—	200	—
6L6G	42	Output Beam Tetrode	6.3	0.9	250	250	-14	—	360†	—	300	—
6L6GA	42	Beam-Power Amp.	6.3	0.9	250	250	-14	—	6.0	2500	170	6.5
			6.3	0.9	250	250	-14	—	6.0	2500	—	6.5

†As Class C RF Amplifier ‡Conversion conductance in micromhos. ● Obsolete type.

Type Number	Base	Application	Heater		Anode Voltage Normal	Screen Voltage Normal	Grid Voltage Normal	Amplification Factor	Mutual Conductance mA/V	Optimum Load Ohms	Auto Bias Resistor	Power Output Watts
			Volts	Amps.								
6N7GT	43	Double Triode	6.3	0.8	300	—	0	35	1.60	8000††	0	10.0
6Q7G/GT	44	Double Diode Triode	6.3	0.3	250	—	-3	70	1.2	—	—	—
6R7G	44	"	6.3	0.3	250	—	-9.0	16	1.9	—	—	—
6SC7GT	45	Double Triode	6.3	0.3	250	—	-2.0	70	1.32	—	—	—
6SL7GT	46	"	6.3	0.3	250	—	-2	70	1.6	—	—	—
6SN7GT	46	"	6.3	0.6	250	—	-8.0	20	2.6	—	—	—
6T8	47	Triode Diode Triode	6.3	0.45	250	—	-3.0	70	1.2	—	—	—
6U4GT	48	Booster Diode	6.3	1.2	Pulse PIV 3,850 Volts.	—	—	—	—	Max. D.C. output 138 Milliamps	—	—
6U5/6G3	49	Magic Eye Indicator	6.3	0.3	250	—	0/-22	—	—	—	—	—
6U5G	50	Magic Eye Indicator	6.3	0.3	250	—	0/-22	—	—	—	—	—
6U7G	40	Vari-Mu R.F. Pent.	6.3	0.3	250	100	-3/-50	—	1.6	—	330	—
6V6G/GT	42	Output Beam Tetrode	6.3	0.45	250	250	-12.5	—	4.1	5000	240	4.5
6X4	51	A.C. Rectifier	6.3	0.6	Max. A.C. Voltage per Anode 325 R.M.S.	—	—	—	—	Max. D.C. Output 70 Milliamps	—	—
6X5G/GT	52	Car Radio Rectifier	6.3	0.6	Max. A.C. Voltage per Anode 325 R.M.S.	—	—	—	—	Max. D.C. Output 70 Milliamps	—	—
7A3	116	Output Pentode	4.0	1.2	250	250	-16.5	—	2.35	7000	410	3.5
7A3	117	Output Pentode	4.0	2.0	250	250	-6	—	10.0	8500	150	3.75
7B6	53	Double Diode Triode	6.3	0.3	250	250	-2	100	1.1	—	—	—
7C5	54	Vari-Mu R.F. Pentode	6.3	0.15	250	100	-3/-40	—	1.75	—	330	—
7C5	55	Output Beam Tetrode	6.3	0.45	250	250	-12.5	—	4.1	5000	240	4.5
7C6	53	Double Diode Triode	6.3	0.15	250	—	-1.0	100	1.0	—	—	—
7D3	117	Output Pentode	4.0	0.2	Characteristics as type 25A6G	—	—	—	—	—	—	—
7D5	117	Output Pentode	13.0	0.315	Characteristics as type 6F6G	—	—	—	—	—	—	—
7D6	117	Output Pentode	40.0	0.2	Characteristics as type 6AG6G	—	—	—	—	—	—	—
7D8	117	Output Pentode	13.0	0.65	Characteristics as type 6AG6G	—	—	—	—	—	—	—
7H7	54	Vari-Mu R.F. Pentode	6.3	0.3	250	150	-2.5/-19	—	4.2	—	200	—
7R7	57	D. Diode Vari-Mu Pent.	6.3	0.3	250	100	-1/-20	—	3.2	—	150	—
7S7	58	Triode-Heptode F.C.	6.3	0.3	250	100	-2/-21	—	530†	—	220	—
7Y4	59	A.C. Rectifier	6.3	0.5	Max. A.C. Voltage per anode 325 R.M.S.	—	—	—	—	Max. D.C. Output 70 mA	—	—
7Z4	59	A.C. Rectifier	6.3	0.9	Max. A.C. Voltage per anode 325 volts R.M.S.	—	—	—	—	Max. D.C. output 100 mA	—	—
8D2	118	R.F. Pentode	13.0	0.2	Characteristics as type 6J7G	—	—	—	—	—	—	—
8D8	139	Low Noise A.F. Pentode	6.3	0.15	250	140	-2	38	1.9	—	—	—
9B2	31	Output Tetrode	9.0	0.3	Characteristics as type 6BW6	—	—	—	—	—	—	—
9D2	118	Vari-Mu R.F. Pentode	13.0	0.2	Characteristics as type 6K7G	—	—	—	—	—	—	—
9D6	22	Vari-Mu R.F. Pentode	6.3	0.2	250	200	-2.5/-28	—	2.5	—	250	—
9D7	103	Vari-mu Pentode	6.3	0.3	250	100	—	—	8.4	—	100	—
11D3	119	Double Diode Triode	13.0	0.2	250	—	-2.0	100	1.1	—	—	—
11D5	119	Double Diode Triode	13.0	0.15	250	—	-3.0	40	1.5	—	—	—
12A6	42	Output Beam Tetrode	12.6	0.15	250	250	-12.5	—	3.0	7500	330	3.4
12AC6	25	Car Radio Vari-Mu Pentode	12.6	0.15	12.6	12.6	0	—	0.73	—	—	—
12AD6	27	Car Radio Freq. Changer	12.6	0.15	12.6	12.6	0	—	260†	—	—	—

††Anode to anode load. ‡Conversion conductance in micromhos. ● Obsolete type.

Type Number	Base	Application	Heater		Anode Voltage Normal	Screen Voltage Normal	Grid Voltage Normal	Amplification Factor	Mutual Conductance mA/V	Optimum Load Ohms	Auto Bias Resistor	Power Output Watts
			Volts	Amps.								
12AE6	24	Car Radio D.D. Triode	12.6	0.15	12.6	—	—	15	1.0	—	—	—
12AH8	60	Triode Heptode F.C.	6.3*	0.3*	250	100	-3	—	550†	—	220	—
12AT6	24	Double Diode Triode	12.6	0.15	250	—	-3	—	1.2	—	—	—
12AT7	61	Double Triode	6.3*	0.3*	250	—	-2.0	55	5.5	—	—	—
12AU6	25	R.F. Pentode	12.6	0.15	Characteristics as type 6AU6	—	—	—	—	—	—	—
12AU7	61	Double Triode	6.3*	0.3*	250	—	-8.5	17	2.2	—	—	—
12AV6	24	Double Diode Triode	12.6	0.15	Characteristics as type 6AV6	—	—	—	—	—	—	—
12AX7	61	Double Triode	6.3*	0.3*	250	—	-2.0	100	1.6	—	—	—
12BA6	25	Vari-Mu R.F. Pentode	12.6	0.15	250	100	-1/-21	—	4.4	—	68	—
12BE6	27	Heptode F.C.	12.6	0.15	250	100	-1.5/-30	—	475†	—	—	—
12BH7	61	Double Triode	6.3	0.6	250	—	-10.5	17	3.1	—	—	—
12C8GT	26	Double Diode Pent.	12.6	0.15	250	125	-3	—	1.12	—	250	—
12I7GT	39	H.F. Pentode	12.6	0.15	250	100	-3	—	1.2	—	—	—
12K5	104	Car Radio Driver Tetrode	12.6	0.45	12.6***	—	-2	5.6	7	800	—	.035
12K7GT	40	Vari-Mu R.F. Pent.	12.6	0.15	250	125	-3/-52	—	1.65	—	200	—
12K8GT	41	Triode Hexode F.C.	12.6	0.15	250	100	-3/-30	—	360†	—	300	—
12Q7GT	44	Double Diode Triode	12.6	0.15	250	—	-3	70	1.2	—	—	—
12SL7GT	46	Double Triode	12.6	0.15	250	—	-2.0	70	1.6	—	—	—
12U5G	50	Magic Eye Indicator	12.6	0.15	250	—	0/-22	—	—	—	—	—
14B6	53	Double Diode Triode	12.6	0.15	Characteristics as type 7B6	—	—	—	—	—	—	—
14H7	54	Vari-Mu R.F. Pentode	12.6	0.15	250	150	-2.5/-19	—	4.2	—	200	—
14H7	57	D. Diode Vari-Mu Pentode	12.6	0.15	250	100	-1/-20	—	3.2	—	150	—
14S7	58	Triode-Heptode F.C.	12.6	0.15	250	100	-2/-21	—	530†	—	220	—
15A2	120	Heptode F.C.	4.0	0.65	Characteristics as type 6A8G	—	—	—	—	—	—	—
15D1	120	Heptode F.C.	13.0	0.2	Characteristics as type 6A8G	—	—	—	—	—	—	—
15D2	120	Heptode F.C.	13.0	0.15	Characteristics as type 6A8G	—	—	—	—	—	—	—
19AQ5	35	Output Tetrode	19.0	0.15	Characteristics as type 6AQ5	—	—	—	—	—	—	—
19BG6G	23	Line Output Tetrode	19.0	0.3	300	250	-18.0	—	6.0	—	—	—
19TB	47	Triode Diode Triode	19.0	0.15	250	—	-3.0	70	1.2	—	—	—
20D2	121	Triode Hexode F.C.	13.0	0.15	Characteristics as type 6K8G	—	—	—	—	—	—	—
20D4	122	Triode Heptode F.C.	6.3	0.3	{(H)250 (I)100}	100	-2/-20	—	850†	—	—	—
25A6G	18	Power Pentode	25.0	0.3	160	120	-18	—	3.4	5000	440	2.2
25LGT	42	Output Beam Tetrode	25.0	0.3	110	110	-7.5	—	9.0	1500	150	2.1
25Z4G†††	62	A.C./D.C. Rectifier	25.0	0.3	Max. A.C. Voltage 250 R.M.S.	—	—	—	Max. D.C. Output 100 Milliamps	—	—	—
35A5	55	Output Tetrode	35.0	0.15	200	110	-8	—	5.9	4500	185	3.3
35L6GT	42	Output Beam Tetrode	35.0	0.15	200	110	-8	—	5.9	4500	185	3.3
35W4	63	A.C./D.C. Rectifier	35.0	0.15	Max. A.C. Voltage 117 V. R.M.S.	—	—	—	Max. D.C. output current 100 mA.	—	—	—

†Conversion conductance in micromhos. *Alternative filament connection 12.6V, 0.15A. ***Space-charge grid voltage. ● Obsolete types.
 ††Type 25Z4G replaces 25Z6G in half wave circuits. OHWS

Type Number	Base	Application	Heater		Anode Voltage Normal	Screen Voltage Normal	Grid Voltage Normal	Amplification Factor	Mutual Conductance mA/V	Optimum Load Ohms	Auto Bias Resistor	Power Output Watts
			Volts	Amps.								
35Z3	64	A.C./D.C. Rectifier	35.0	0.15	Max. A.C. Voltage per Anode 250 R.M.S.	—	—	—	Max. D.C. Output 100 Milliamps	—	—	—
35Z4GT	65	A.C./D.C. Rectifier	35.0	0.15	Max. A.C. Voltage per Anode 250 R.M.S.	—	—	—	Max. D.C. Output 100 Milliamps	—	—	—
42	123	Output Pentode	6.3	0.7	Characteristics as type 6F6G	—	—	—	—	—	—	—
43	123	Output Pentode	25.0	0.3	Characteristics as type 25A6G	—	—	—	—	—	—	—
50A5	55	Output Tetrode	50.0	0.15	200	110	-8	—	8.25	3000	160	4.3
50CS	66	Output Beam Tetrode	50.0	0.15	110	110	-7.5	—	7.5	2500	140	1.9
50C04G	35	Line Output Tetrode	50.0	0.3	200	150	-30	—	6.7	—	—	—
50L6GT	42	Output Beam Tetrode	50.0	0.15	200	110	-8.0	—	9.5	3000	150	4.3
75	124	Double Diode Triode	6.3	0.3	250	—	-2	100	1.1	—	—	—
76	125	Triode	6.3	0.3	250	—	-3.5	14	1.45	—	—	—
77	126	R.F. Pentode	6.3	0.3	Characteristics as type 6I7G	—	—	—	—	—	—	—
78	126	Vari-Mu R.F. Pentode	6.3	0.3	Characteristics as type 6K7G	—	—	—	—	—	—	—
90S	127	A.C. Rectifier (IH)	5.0	2.0	Max. A.C. Voltage per Anode 350 volts R.M.S.	—	—	—	Max. D.C. Output 125 mA	—	—	—
80	110	A.C. Rectifier	5.0	2.0	Max. A.C. Voltage per Anode 350 volts R.M.S.	—	—	—	Max. D.C. Output 125 mA	—	—	—
83V	128	A.C. Rectifier	5.0	2.0	Characteristics as type 5Y4G	—	—	—	—	—	—	—
1629	50	Tuning Indicator	12.6	0.15	250	250	0/-8	—	—	—	—	—
D15	67	Current Stabiliser	—	—	Operating Current 0.15 amp	—	—	—	—	—	—	—
DAF96	10	Min. Batt. Diode Pentode	1.4	0.025	67.5	67.5	-1.5	—	0.171	—	—	—
DF96	6	Min. Batt. Vari-Mu Pentode	1.4	0.025	85.0	64.0	0/-5.5	—	0.85	—	—	—
DK96	4	Min. Batt. Heptode F.C.	1.4	0.025	85.0	68.0	0	—	300†	—	—	—
DL96	68	Min. Batt. Output Pentode	1.4(2.8)	0.05(0.025)	85.0	85.0	-5.2	—	1.4	13,000	—	0.2
DY86	140	E.H.T. Rectifier	1.4	0.55	Max. Peak Inverse Voltage 22,000.	—	—	—	—	—	—	—
EABC80	47	Triode Diode Triode	6.3	0.45	250	—	-3.0	70	1.2	—	—	—
EBC41	69	Double Diode Triode	6.3	0.23	250	250	-3.0	70	1.3	—	—	—
EBF80	129	Double Diode Pentode	6.3	0.3	250	85	-2	2.2	2.2	—	—	—
ECC84	70	Min. High Slope Dble. Triode	6.3	0.335	90	—	-1.5	24	6.0	—	—	—
ECC85	71	Min. R.F. Dble. Triode	6.3	0.435	250	—	-2.3	57	5.9	—	—	—
ECF80	72	Triode-Pentode	6.3	0.43	{170 100}	170	-2	20	5.0	—	—	—
ECF82/6L8	72	V.H.F. Triode Pentode F.C.	6.3	0.41	{(P)250 (I)150}	110	-0.9/-10	—	5.2	—	68	—
ECH42	73	Triode Hexode F.C.	6.3	0.23	250	85	-2.0	—	750†	—	—	—
ECL80/6AB8	74	Triode Output Pentode	6.3	0.3	200	200	-8.0	17.5	3.3	Pentode Section	—	3.3
ECL82	130	Triode Pentode	6.3	0.78	{(P) 170 (I) 100}	170	-11.5	70	7.5	4000	—	—
EF41	76	Vari-Mu R.F. Pentode	6.3	0.2	250	100	-2.5/-39	—	2.2	—	—	—
EF80	131	R.F. Pentode	6.3	0.3	250	250	-3.5	—	6.8	—	270	—
EF89	132	R.F. Pentode	6.3	0.2	250	100	-2/-20	—	3.5	—	160	—
EL41	76	Output Pentode	6.3	0.7	250	250	-7.0	—	10.0	7000	—	4.2

†Conversion conductance in micromhos. ● Obsolete type. OHWS

Type Number	Base	Application	Heater		Anode Voltage Normal	Screen Voltage Normal	Grid Voltage Normal	Amplification Factor	Mutual Conductance mA/V	Optimum Load Ohms	Auto Bias Resistor	Power Output Watts
			Volts	Amps.								
EL84	77	Min. Output Pentode	6.3	0.76	250	250	-7.3	—	11.0	5200	—	5.7
EM71	78	Tuning Indicator	6.3	0.3	250	—	0/-20	—	—	—	—	—
EM85	79	Tuning Indicator	6.3	0.3	250	—	0/-18	—	—	—	—	—
EM84	133	Tuning Indicator	6.3	0.25	250	250	0/-22	—	—	—	—	—
EY83	84	Booster Diode	6.3	1.0	Max. Pulse P.I.V. 5000V.	—	—	—	—	—	—	—
EY86	140	E.H.T. Rectifier	6.3	0.09	Max. Peak Inverse Voltage 22,000.	—	—	—	—	—	—	—
EZ40	80	A.C. Rectifier	6.3	0.6	Max. A.C. Voltage per Anode 350v R.M.S.	—	—	—	—	—	—	—
EZ80/V4	81	A.C. Rectifier	6.3	0.6	Max. A.C. Voltage per Anode 350v R.M.S.	—	—	—	—	—	—	—
EZ81	81	A.C. Rectifier	6.3	1.0	Max. A.C. Voltage per Anode 350 volts R.M.S.	—	—	—	—	—	—	—
HABC80	47	Triple Diode Triode	19.0	0.15	250	—	-3	70	1.2	—	—	—
HY90	63	A.C./D.C. Rectifier	35.0	0.15	Max. A.C. Voltage 250 V. R.M.S.	—	—	—	—	—	—	—
PC84/7AN7	82	V.H.F. Amplifier	7.0	0.3	90	—	-1.5	24	6.0	—	—	—
PCF80	72	Triode-Pentode	9.0	0.3	{ 170 100	{ 170 170	{ -2 -2	{ 47 20	{ 6.2 5.0	{ — —	{ — —	{ — —
PCF82/9U8	72	V.H.F. Triode Pent. F.C.	9.5	0.3	{ (P)250 (T)150	{ 110 —	{ -0.9/-10 -1.0	{ — —	{ 5.2 8.5	{ — —	{ 68 56	{ — —
PCL82	130	Triode Pentode	16.0	0.3	Characteristics as type ECL82	—	—	—	—	—	—	—
PCL84	138	Video Triode Pentode	15.0	0.3	{ (P)170 (T)200	{ 170 —	{ -2.1 -1.7	{ 65 —	{ 11.0 4.0	{ — —	{ — —	{ — —
PL36	141	Line Output Tetrode	25.0	0.3	100	100	-8.2	5.6	14.0	—	—	—
PL81/21A6	83	Line Output Pentode	21.5	0.3	200	200	-28	—	6.0	—	—	—
PY81/17Z3	84	Booster Diode	17.0	0.3	Pulse P.I.V. 4,500v	—	—	—	—	—	—	—
PY83	84	Booster Diode	20.0	0.3	Pulse P.I.V. 5,000v	—	—	—	—	—	—	—
PL84	77	Output Pentode	15.0	0.3	170	170	-12.5	8.0	10.0	2400	—	7.0
R2	134	A.C. Rectifier	4.0	2.5	Max. A.C. Voltage per Anode 350 volts R.M.S.	—	—	—	—	—	—	—
R3	134	A.C. Rectifier	4.0	2.5	Max. A.C. Voltage per Anode 500 volts R.M.S.	—	—	—	—	—	—	—
R10	85	High Voltage Rectifier	4	0.5	Max. A.C. Voltage 5,500 R.M.S.	—	—	—	—	—	—	—
R11	135	H.V. Rectifier (DH)	4.0	1.1	Max. A.C. Input Voltage 5.0 kv.	—	—	—	—	—	—	—
R12**	—	E.H.T. Rectifier	6.3	0.09	Max. Peak Inverse Voltage 17,000	—	—	—	—	—	—	—
R19	86	E.H.T. Rectifier	1.25	0.2	Max. Peak Inverse Voltage 25,000	—	—	—	—	—	—	—
R20	140	E.H.T. Rectifier	2.0	0.35	Max. Peak Inverse Voltage 22,000.	—	—	—	—	—	—	—
UBC41	87	Double Diode Triode	14.0	0.1	170	—	-1.6	70	1.65	—	—	—
UCH42	88	Triode Hex. F.C.	14.0	0.1	200	85	—	—	750†	—	—	—
UCL82	130	Triode-Pentode	50.0	0.1	{ 170 100	{ 170 170	{ -11.5 0	{ 9.5 70	{ 7.5 2.5	{ 3900 —	{ — —	{ 3.3 —
UF41	89	R.F. Pentode	12.6	0.1	200	116	-3/-34	—	2.3	—	—	—
UL41	89	Power Pentode	45.0	0.1	200	200	-14.2	—	8.2	4300	—	4.2
UL84	77	Output Pentode	45.0	0.1	170	170	-12.5	8.0	10.0	2400	—	7.0
UY41	90	Half wave Rectifier	31.0	0.1	Max. A.C. Anode Voltage 250v R.M.S.	—	—	—	—	—	—	—

†Conversion conductance in Micromhos.

**Wire ended valve

● Obsolete type.

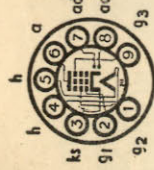
INDUSTRIAL TYPES (NOT SUBJECT TO PURCHASE TAX)

Type Number	Base	Application	Heater		Anode Voltage Normal	Screen Voltage Normal	Grid Voltage Normal	Amplification Factor	Mutual Conductance mA/V	Optimum Load Ohms	Auto Bias Resistor	Power Output Watts
			Volts	Amps.								
OJAZ	91	Voltage Regulator	—	—	Operating Voltage 150v	—	—	—	—	—	—	—
OBZ	91	"	—	—	Operating Voltage 108v	—	—	—	—	—	—	—
2DZ1	92	Gas-filled Thyatron	6.3	0.6	460R.M.S.	0	-6.0	—	—	—	—	—
6BK4	105	E.H.T. Stabiliser	6.3	0.2	D.C. Output Voltage 25kv.	—	—	—	—	—	—	—
6BS7	93	Low Noise R.F. Pentode	6.3	0.15	250	100	-3.0	—	1.25	—	1200	—
● 13D1	46	Double Triode	25.0	0.15	250	—	-8	20	2.6	—	1100	—
● 13D2	46	Double Triode	6.3	0.6	Characteristics as type 6SN7GT	—	—	—	—	—	—	—
13D3	94	Min. Double Triode	16.3(12.6)	0.6(0.3)	250	—	-4.6	32	2.3	—	—	—
● 83	95	Full Wave Rectifier	5.0	3.0	(Mercury Vapour)	Max. A.C. Anode Voltage 450v. R.M.S.	—	—	—	—	—	—
807	96	Beam Power Amp.	6.3	0.9	400	300	-25	—	6.0	3200††	—	55.0††
5763	97	Min. V.H.F. Amplifier	6.0	0.75	250	250	-7.25	—	7.0	—	—	—
5965	61	Computer Double Triode	{ 12.6 6.3	{ 0.225 0.45	150	—	-1.8	47	6.5	—	200	—
6146	136	R.F. Power Tetrode	6.3	1.25	200	200	-29.5	—	7.0	—	—	52†
6870	106	R.F. Amp. Pentode	6.3	0.6	180	180	—	—	9	—	56	—
F7001	137	R.F. Beam Tetrode	6.3	0.45	120	120	0	—	48	—	250	—
7032	27	Gating Heptode	6.3	0.3	250	100	{ (G1)-2 (G3) 0	—	{ (G1).8 (G3)0.5	—	—	—
● R17	98	Half Wave Rectifier	6.3	0.8	Max. A.C. Anode Voltage 500v R.M.S.	—	—	—	—	—	—	—
R18	98	Half Wave Rectifier	6.3	1.1	Max. A.C. Anode Voltage 625v R.M.S.	—	—	—	—	—	—	—
VR75/30	99	Voltage Regulator	—	—	Operating Voltage 75v	—	—	—	—	—	—	—
VR105/30	99	Voltage Regulator	—	—	Operating Voltage 105v	—	—	—	—	—	—	—
VR150/30	99	Voltage Regulator	—	—	Operating Voltage 150v	—	—	—	—	—	—	—

†As Class C RF Amplifier ††For 2 Valves in Class AB2.

● Obsolete type.

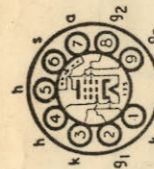
BRIMAR VALVE BASES



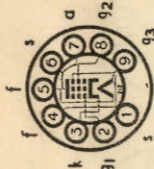
129. Noval B9A



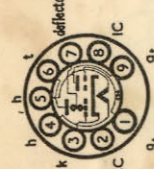
130. Noval B9A



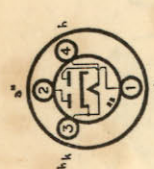
131. Noval B9A



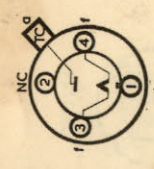
132. Noval B9A



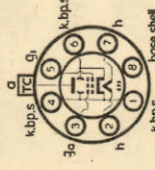
133. Noval B9A



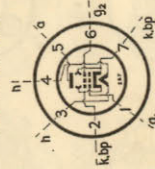
134. English B4



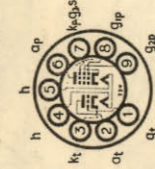
135. English B4



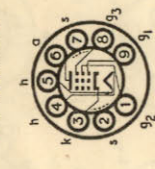
136. Octal B8-0



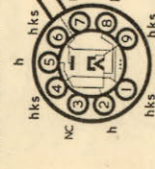
137. Min. B7G



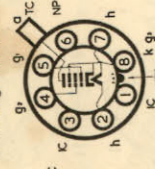
138. Noval B9A



139. Noval B9A



140. Noval B9A



141. Octal

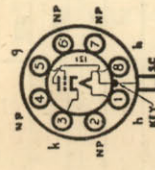
BRIMAR TELETUBES

Type Number	Base	Screen Dia.	Overall Length	Heater		Anode Voltage	Grid Voltage††	Type Number	Base	Screen Dia.	Overall Length	Heater		Anode Voltage	Grid Voltage††
				Volts	Amps.							Volts	Amps.		
●CVA	1	9"	14 1/2"	2.0	1.4	6,000	-30	C17FM1*	3	17 1/2"	19 3/8"	12.6	0.3	15,000	-33/-77
●CVB*	2	9"	16 3/8"	2.0	2.5	7,000	-40/-100	C17JM1**	5	17 1/2"	19 1/2"	6.3	0.6	15,000	-33/-77
●C12A	1	12"	18"	2.0	1.4	6,000	-35	C17LM	5	17 1/2"	—	6.3	0.3	16,000	-33/-77
●C12B*	2	12"	19 1/2"	2.0	2.5	10,000	-60/-140	C17PM	5	17 1/2"	—	6.3	0.3	16,000	-33/-77
●C12D*	2	12"	19 1/2"	2.0	2.5	6,000	-40/-100	C17SM	5	17 1/2"	—	6.3	0.3	16,000	-33/-77
C12FM†	3	12"	18"	6.3	0.3	7,000	-40	C31AA††	5	21 1/2"	—	6.3	0.3	15,000	-30/-72
C14BM*	4	14 1/2"	16 7/8"	6.3	0.6	12,000	-70	C31AM††	5	21 1/2"	—	6.3	0.6	16,000	-33/-77
C14FM†	3	14 1/2"	16 1/2"	12.6	0.3	12,000	-33/-77	C31HM††	3	21 1/2"	23"	6.3	0.6	16,000	-33/-77
C14LM	5	14 1/2"	15 1/2"	6.3	0.3	16,000	-33/-77	C31NM	6	21 1/2"	20"	6.3	0.3	16,000	-53/-105
C14PM	5	14 1/2"	—	6.3	0.3	15,000	-30/-72	C31TM	3	21 1/2"	20"	12.6	0.3	18,000	-30/-72
C17AA††	7	17 1/2"	12 1/2"	6.3	0.3	15,000	-30/-72	C24KM	6	24"	20 1/2"	6.3	0.3	16,000	-40/-80
C17BM*	4	17 1/2"	19 3/8"	6.3	0.6	15,000	-40/-70								

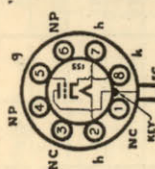
††Electrostatic focus. *Aluminised Screen. †Tetrode with Ion Trap. ††For Visual Cut-off. ●Obsolete Type.

BRIMAR

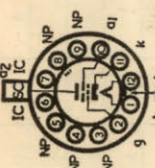
TELETUBE BASES



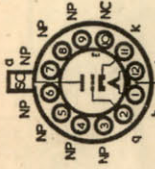
1. British Octal



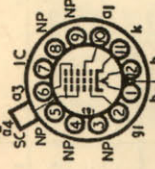
2. International Octal



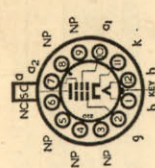
3. Duodecal



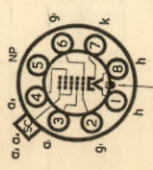
4. Duodecal



5. Duodecal



6. Duodecal



7. B8H.

BRIMISTORS

Type	Outline	Dimensions inches		Initial Resistance Ohms		Max. Voltage Factor "k"	E max. Volts 20°C	Max. Operating Current Amp.	Resistance* at Max. Operating Current Ohms	Instantaneous Current Amp.
		Length	Diam.	0°C	50°C					
CZ1	Type C have silvered ends for clips Type CZ have soldered wire leads and axial leads	1 1/2"	7/16"	8300	3800	2.36	25	0.3	44	0.6
CZ1A		1 1/2"	7/16"	12500	5500	2.47	30	0.3	38	0.4
CZ2		1 1/2"	7/16"	3500	1500	2.9	13.5	0.2	35	0.3
CZ3		1 1/2"	7/16"	1700	800	1.92	14.7	1.25	5.5	2.0
CZ4		1 1/2"	7/16"	6000	3000	2.4	23	0.45	27	0.7
CZ4A		1 1/2"	7/16"	3700	1600	2.48	15.6	0.3	30	0.6
CZ6		1 1/2"	7/16"	800	350	2.53	7.8	1.0	3.7	1.3
CZ8A		1 1/2"	7/16"	26000	11000	5.4	19.5	0.075	148	0.150
CZ9A		1 1/2"	7/16"	280	140	65	5.8	1.5	2.5	2.5
CZ10		1 1/2"	7/16"	240	120	1.71	6.4	2.5	1.5	4.0
CZ11		1 1/2"	7/16"							
CZ12		1 1/2"	7/16"							

*In ambient of 20°C. At higher ambients, this figure will be somewhat lower.

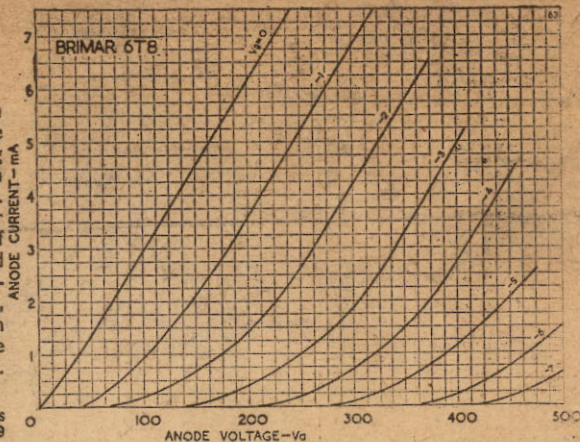
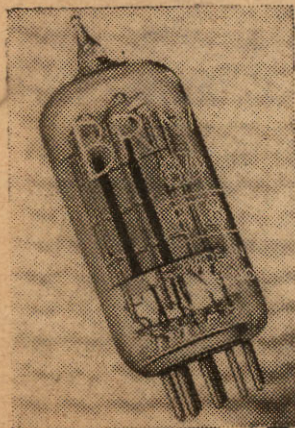
TYPE	Price	P. Tax	TYPE	Price	P. Tax	TYPE	Price	P. Tax	TYPE	Price	P. Tax	TYPE	Price	P. Tax
R2	12/6	4/1	R12	10/-	3/3	R20	15/-	4/11	UCH81	10/6	3/5	UL41	10/6	3/5
R3	12/6	4/1	R17	17/6	—	UBC41	9/6	3/1	UCL82	12/6	4/1	UL84	9/6	3/1
R10	25/-	8/2	R18	14/-	—	UCC85	11/-	3/7	UCL83	14/6	4/9	UY41	7/6	2/6
R11	20/-	—	R19	15/-	4/11	UCH42	12/-	3/11	UF41	10/-	3/3	UY85	7/-	2/4
VALVES continued														
C9A	180/-	—	C12D	255/-	—	C14LM	255/-	—	C17FM	270/-	—	C17SM	250/-	—
C9B	195/-	—	C12FM	240/-	—	C14PM	235/-	—	C17JM	270/-	—	C21AA	360/-	—
C12A	240/-	—	C14BM	235/-	—	C17AA	250/-	—	C17LM	270/-	—	C21HM	340/-	—
C12B	255/-	—	C14FM	235/-	—	C17BM	270/-	—	C17PM	270/-	—	C21SM	340/-	—
TELETUBES														
DRM1B	15/4	—	RM2	9/-	—	SB3	9/-	—	K3/45	9/4	—	G3/3	3/4	—
DRM2B	16/2	—	RM3	12/6	—	M1	2/8	—	K3/50	9/10	—	G3/4	3/5	—
DRM3B	23/3	—	RM4	18/6	—	M3	2/8	—	K3/100	16/8	—	G3/5	3/6	—
RM0	7/11	—	RM5	25/-	—	K3/15	5/-	—	Q1/1	3/1	—	G6/1	3/1	—
RM1	8/6	—	SB2	31/-	—	K3/25	6/5	—	Q1/2	3/2	—	G6/5	3/6	—
RM1A	13/2	—		9/-	—	K3/40	8/6	—	Q1/5	3/6	—	D3/21YZ	7/6	—
METAL RECTIFIERS														
C2D	8/6	—	C2V	8/6	—	C3B	14/-	—	C3D	10/6	—	C3H	8/6	—
C2H	5/6	—		5/6	—			—			—			—
CONTACT COOLED TYPES														
TS1	10/-	—	TS4	24/-	—	TS13	15/-	—	TS15	30/-	—	TJ2	14/-	—
TS2	12/6	—	TS7	23/-	—	TS14	14/-	—	TS17	17/-	—			—
TS3	15/-	—	TS8	26/-	—			—	TJ1	12/6	—			—
TRANSISTORS														
CZ1	2/6	—	CZ2	3/6	—	C4	5/-	—	CZ6	3/6	—	CZ9A	2/6	—
CZ1A	2/6	—	CZ3	1/6	—	C74A	5/-	—	CZ8A	2/6	—	CZ10	1/6	—
BRIMISTORS														
GD3	4/-	—	GD5	4/-	—	GD8	4/-	—	GD10	4/-	—	GD12	4/-	—
GD4	4/-	—	GD6	4/-	—	GD9	4/-	—	GD11	4/-	—	GD14	10/-	—
GERMANIUM DIODES														

BRIMAR 6T8

The Brimar 6T8 is a triple-diode triode in which one diode has a separate cathode. The triode section has a high amplification factor making the valve suitable for use in AM/FM receivers in the demodulation and first stage audio circuits. The diodes may be used in series shunt limiter circuits, for example, in the audio sections of

television and communications receivers, followed again by the triode section for A.F. amplification.

Near Equivalents
EABC80 DH719
6AK8



Typical Triode Operating Characteristics as an R.C. coupled amplifier.

Anode Supply Voltage	...	...	...	250	250 volts
Anode Load Resistor	...	...	...	0.25	0.25 megohms
Grid Resistor	...	...	...	1.0	10 megohms
Cathode Bias Resistor	...	...	...	3	0 kilohms
Peak Output Voltage	...	...	...	43	40 volts
Stage Gain (for 24 V peak to peak output)	...	...	...	42	42
Distortion (for 24 V peak to peak output)	...	...	...	1	5%

Keep this for further reference or write to the Publicity Department for a data sheet.