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ALBION

“AT A GLANCE”

**RADIO VALVE & TUBE
EQUIVALENTS**

by B. B. BABANI

WITH THE COMPLIMENTS OF

ALBION ELECTRIC STORES

Distributors of all B.R.V.M.A. Valves & Tubes

at

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**36 PICCADILLY
BRADFORD**



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NOTTINGHAM**

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Radio Valve & Television Tube
EQUIVALENTS

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B. B. BABANI

BERNARDS (Publishers) LTD.

THE GRAMPIANS
WESTERN GATE
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INTRODUCTION

To use the table of commercial equivalents, identify the valve to be replaced in the TYPE column, all equivalents may then be read off across the page without further reference.

In the column headed EUPN will be found valve types originating in Europe from numerous manufacturers such as Philips, Valvo, Telefunken, Fivre etc. American valves will be found in the column headed U.S.A. The remaining columns list valves produced by the important British manufacturers. When replacing a valve in the high frequency stages of a receiver, it should be remembered that re-alignment is desirable to ensure peak performance.

On page 33, details are given of valve equivalents received too late for inclusion in the main tables, these are listed as Supplementary Valves.

Attention is drawn to the industrial types quoted in the Equivalent Tables. These have been developed to meet the stringent demands of modern industry where reliability is of the utmost importance, electrically they have standard equivalents. An example is type 6058, for normal working this may be replaced with a 6AL5 or an EB91, but if the equipment is to continue working under stringent conditions an industrial type should be selected.

Certain valves are suitable for use with either parallel or series heater circuits, that is AC or AC/DC equipment. Equivalents of a given valve are not necessarily suitable for both applications and where this point arises a footnote has been added identifying types suitable for both series and parallel circuits or those intended for series circuits. An example is the OM10. Types 6K8, X147, 6C31, ECH35, X61M, 6E8 and

6TH8 are equivalents when used with parallel heater circuits because they all have 6.3 volt heaters. Equivalent types ECH3G and ECH33 have the same heater voltage and current rating as the OM10 (6.3v. 0.2A) and are equally suitable for series or parallel circuits. The CCH35 has a heater rating of 7.0v 0.2A and is intended for series circuits only.

The C.V and Armed Forces sections will be found particularly useful when attempting to identify valves obtained from ex-Government sources.

A complete section is devoted to Television Picture Tubes, this feature is unique in its conception.

Not only have equivalents been shown, but also near equivalents. The necessary electrical changes are outlined in the remarks column. It should be noted that the changes relate only to the electrical characteristics of the various tubes and that differences in physical measurements have not been considered. This may necessitate slight structural alterations in certain cases.

When substituting ordinary tubes for ion trap models, care should be taken to see that there is sufficient room on the tube neck, after the scanning and focus components have been mounted to position the ion trap magnet.

It is sometimes difficult to centre the picture with these tubes without modifying the focus mounting brackets, in cases of doubt or difficulty, the ion trap tube manufacturer should be consulted regarding its suitability.

Tubes with an external coating (aquadag) can be used to replace plain glass tubes, but arrangements should be made to connect the coating to chassis potential.

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OF THE NUMBER OF FRIENDS who regularly entrust us with their orders knowing that they require a square deal and good service.

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OF OUR LARGE & COMPREHENSIVE STOCKS which are available to meet your needs.

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TO SOLICIT THE PATRONAGE OF THOSE TO WHOM WE SEND THIS BOOK WHICH WE HOPE THEY FIND OF SERVICE. IN ASKING YOUR SUPPORT WE ASSURE YOU OF OUR CONSTANT ENDEAVOUR TO GIVE SATISFACTION TO ALL OUR FRIENDS. BOTH OLD AND NEW.



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Phone 44531

COMMERCIAL EQUIVALENTS

1-1X2A

TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI or EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
1	-	-	-	-	-	-	-	-	-	-	1V
1A3	-	-	DA90	-	-	-	1D13	DA90	-	-	6Z3
1A4	-	-	-	-	-	-	-	-	-	-	-
1A5	-	-	-	-	-	-	-	-	-	-	1B4
1A6	-	-	-	-	-	-	-	-	-	-	1T5
1A7	-	-	DK32	-	-	X14	-	DK32	X14	-	1C6
1AB6	-	-	DK96	-	-	-	-	DK96	-	-	-
1AC5	-	-	-	-	-	-	-	-	-	-	1V5
1AC6	-	-	DK92	DK92	-	X18	1C2	DK92	X18	-	-
1AF4	-	-	DF96	-	-	-	-	DF96	-	-	1AJ4
1AF5	-	-	DAF96	-	-	-	-	DAF96	-	-	1AH5
1AH5	-	-	DAF96	-	-	-	-	DAF96	-	-	1AF5
1AJ4	-	-	DF96	-	-	-	-	DF96	-	-	1AF4
1B3	-	-	DY30	-	-	-	-	DY30	U41	-	8016
1B4	-	-	-	-	-	-	-	-	-	-	1A4
1B5	-	-	-	-	-	-	-	-	-	-	951
1B7	-	-	-	-	-	-	-	-	-	-	1LH4
1C1	1R5	1R5	DK91	DK91	1R5	X17	-	DK91	X17	-	1A7
1C2	1AC6	1AC6	DK92	DK92	-	X18	-	DK92	X18	-	1R5
1C5	-	-	DL35	-	-	N14	-	DL35	N14	-	1AC6
1C6	-	-	-	-	-	-	-	-	-	-	-
1C7	-	-	-	-	-	-	-	-	-	-	1A6
1D5	-	40SUA	CY1C	C10B	RZ	-	U4020	UR1C	-	V30	1D7
1D5G	-	-	-	-	-	-	-	-	-	-	1E5G
1D7	-	-	-	-	-	-	-	-	-	-	1C7
1D8	-	-	-	-	-	-	-	-	-	-	1LA4
1D13	-	-	DA90	-	-	-	-	DA90	-	-	1LB4
1E3	-	-	DC80	-	-	-	-	DC80	-	-	1A3
1E4	-	-	-	-	-	-	-	-	-	-	-
1E5G	-	-	-	-	-	-	-	-	-	-	1G4
1F2	1L4	-	DF92	-	-	-	-	DF92	-	-	1D5G
1F3	1T4	1T4	DF91	DF91	1T4	W17	-	DF91	W17	1T4	1L4
1F5	-	-	-	-	-	-	-	KL35	-	-	1T4
1FD9	1S5	1S5	DAF91	DAF91	1S5	ZD17	-	DAF91	ZD17	-	1S5
1G4	-	-	-	-	-	-	-	-	-	-	1E4
1G5G	-	-	-	-	-	-	-	-	-	-	1J5G
1H5	-	-	DAC32	DAC32	-	HD14	-	DAC32	HD14	-	1G5G
1J5G	-	-	-	-	-	-	-	-	-	-	-
1L4	-	-	DF92	-	-	-	1F2	DF92	-	-	1G5G
1LA4	1D8	-	-	-	-	-	-	-	-	-	1LB4
1LA6	-	-	-	-	-	-	-	-	-	-	1LC6
1LB4	1D8	-	-	-	-	-	-	-	-	-	1LA4
1LC6	-	-	-	-	-	-	-	-	-	-	1LA6
1LE3	-	-	-	-	-	-	-	-	-	-	1LF3
1LF3	-	-	-	-	-	-	-	-	-	-	1LE3
1M3	-	-	DM70	-	-	-	-	DM70	-	-	-
1N5	-	-	DM71	-	-	-	-	DM71	-	-	-
1P10	3S4	3S4	DF33	-	-	Z14	-	DF33	Z14	-	-
1P11	3V4	-	DL92	DL92	3S4	N17	-	DL92	N17	3S4	3S4
1Q5	-	-	DL94	DL94	-	N19	-	DL94	N19	-	3V4
1Q6	-	-	-	-	-	-	-	DL36	-	-	-
1R4	-	-	-	-	-	-	-	-	-	-	1T6
1R5	-	-	-	-	-	-	-	-	-	-	1S6
1R5	-	-	DK91	DK91	-	X17	1C1	DK91	X17	-	1294
1S4	-	-	DL91	-	-	-	-	DL91	-	-	-
1S5	-	-	DAF91	DAF91	-	ZD17	1FD9	DAF91	ZD17	-	-
1S6	-	-	-	-	-	-	-	-	-	-	-
1T2	R16	-	-	-	-	U37	-	-	U37	-	1T6
1T4	-	-	DF91	-	-	W17	1F3	DF91	W17	-	1Q6
1T5	-	-	-	-	-	-	-	-	-	-	-
1T6	-	-	-	-	-	-	-	-	-	-	-
1U4	-	-	DF904	-	-	-	-	-	-	-	1A5
1V	-	-	-	-	-	-	-	-	-	-	1S6
1V5	-	-	-	-	-	-	-	-	-	-	1Q6
1X2	-	-	DY80	-	-	-	-	DY80	-	-	1
1X2A	R19	-	-	-	-	-	-	-	-	-	6Z3
											1AC5

TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI or EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
2A3	-	-	-	-	-	-	-	-	-	-	45
2A6	-	-	-	-	-	-	-	-	-	-	1659
2C21	-	-	-	-	-	-	-	-	-	-	1642
2D2	-	220DD	-	-	-	-	-	-	-	-	-
2D4	-	-	-	-	-	-	-	-	-	-	-
2D4A	DDA41	DDL4	-	A20B	SD	D41	V914	-	D41	DD465	-
2D4B	-	-	-	-	-	-	-	-	-	DD4	-
2D13A	-	-	-	-	-	-	-	-	-	DD4D	-
2D13C	10D1	-	-	C20C	-	-	-	-	-	DD13S	-
2D21	-	-	PL21	-	-	-	-	PL21	-	DD13	-
2P	-	2XP	-	S30D	-	-	PA20	ACO42	-	-	-
2X2	-	-	-	-	-	-	-	-	-	-	-
2XP	-	-	-	-	-	-	PA20	ACO42	-	-	2Y2
2Y2	-	-	-	-	-	-	-	-	-	-	879
3A4	-	-	DL93	-	-	-	-	DL93	-	-	-
3A5	-	-	DCC90	-	-	-	-	DCC90	-	-	-
3B7	-	-	-	-	-	-	-	-	-	-	-
3C4	-	-	DL96	-	-	-	-	DL96	-	-	1291
3C6	-	-	-	-	-	-	-	-	-	-	3E5
3D6	-	-	-	-	-	-	-	-	-	-	XXB
3E5	-	-	DL96	-	-	-	-	DL96	-	-	3LF4
3LF4	-	-	-	-	-	-	-	-	-	-	1299
3Q4	-	-	DL95	-	-	N18	-	DL95	N18	-	-
3Q5	-	-	-	-	-	N15	-	DL33	N15	-	-
3S4	-	-	DL92	DL92	-	N16	-	-	N16	-	-
3V4	-	-	DL94	-	-	N17	1P10	DL92	N17	-	-
4/100BU	-	-	-	-	-	N19	1P11	DL94	N19	-	-
4D1	-	-	CC2	C30B	DA	U18/20	HL132D	FW4/530	U18 20	RV200/600	-
4THA	-	-	-	A36C	-	-	HL13C	TH4B	-	HL13	-
4XP	-	-	E406N	S30C	LP4	PX4	AC/TH1	TH4B	-	TH4A	-
5AZ4	5Y3	-	-	-	-	U50	PP3/250	ACO44	PX4	P12/250	-
5B1	-	215SG 220SG	-	K40B	-	S21	S215	PM12	U50	5Y3	5Y3
						S22		PM12A	S21	SS210	-
						S23			S22		-
						S24			S23		-
5B/250A	807	807	QE06-50	-	807	-	-	QV05-25	-	-	807
5T4	5U4	-	-	-	-	U52	-	-	U52	-	5933
5U4	-	-	-	-	-	U52	-	-	U52	-	5U4
5V4	-	53KU 54KU	GZ34	-	R52	-	-	GZ32	-	-	5931
5W4	-	-	-	-	-	U50	-	-	U50	-	5931
5Y3	-	-	-	-	-	U50	-	-	U50	-	-
5Z3	-	-	-	-	-	-	-	-	-	-	5Y3
5Z4	-	54KU 52KU	GZ30 GZ34	-	R52	-	-	GZ30 GZ32	-	-	5A24
6A4	-	-	-	-	-	-	-	-	-	-	5A24
6A5	-	-	-	-	-	-	-	-	-	-	6004
6A6	-	-	-	-	-	-	-	-	-	-	83*
6A8	-	-	-	-	-	-	-	-	-	-	1275
6AB4	-	-	EC92	-	-	X63	-	-	B63 X63	-	5V4
6A55	-	-	-	-	-	-	-	EC92	-	-	-
6A86	-	-	-	-	-	-	-	-	-	-	6N5
6AB7	-	-	-	-	-	-	-	-	-	-	6N6
6AB8	-	63T1	ECL80	-	-	LN152	-	ECL80	-	-	1853
6AC7	-	-	-	-	-	-	-	-	-	-	-
6AD3	-	-	EBF81	-	-	-	-	EBF81	-	-	6A17
6AE8	-	-	-	-	-	X79	-	-	-	-	1649
6AF3	-	-	-	-	-	-	-	-	-	-	1852
6AG5	-	-	EF96	-	-	-	-	EF96	-	-	6134
											6P5
											6BC5

* Mercury vapour, restricted application.

COMMERCIAL EQUIVALENTS

6AG6-6C5

TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI or EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
6AG6	-	-	6PX6 EL33	-	-	N147 KT61	6P25	EL33	KT61	PP6BG	6AY5 6M6 6AK7 6AC7 1649 1852 6134
6AG7	-	-	-	-	-	-	-	-	-	-	-
6AJ7	-	-	-	-	-	-	-	-	-	-	-
6AJ8	-	-	ECH81 EF95	-	-	-	-	ECH81 EF95	-	-	-
6AK5	-	-	PM05	-	DP61	-	-	-	-	-	5591
6AK7	-	-	-	-	-	-	-	-	-	-	6AG7
6AK8	6T8	-	EABC80	-	-	-	-	EABC80	-	-	6T8
6AL5	6058	DD6	EAA91 D2M9	-	DD6	D152 D77 QD77 N77 N144 QN77 Z77 QZ77	6D2	EB91 M8079	D77 QA2404	DD6G	5726 6058
6AM5	7D9	-	EL91	-	-	-	-	EL91 M8082	N77 QA2402 QN77	-	6AM5
6AM6	8D3 6064	SP6	EF91 PM07 ECH80	-	-	-	6F12	EF91 M8083 ECH80	QA2403 Z77	HP6	-
6AN7	-	-	EC91	-	-	-	-	EC91	-	-	-
6AQ4	-	-	EL90	-	-	-	6L34	EL90	N727	-	6005
6AQ5	-	-	BPM04	-	-	-	-	-	-	-	-
6AQ6	-	-	EBC91 ABC91	-	-	DH77	-	EBC91	DH77	-	6AV6 6BK6 5725 6080
6AS6	-	-	-	-	-	-	-	-	-	-	-
6AS7	-	-	-	-	-	-	-	-	-	-	6080
6AT6	6066	-	EBC90	-	-	DH77	-	EBC90	DH77	-	6BT6 6066
6AU6	-	-	EF94	-	-	-	-	EF94	-	-	-
6AV4	-	-	EZ91	-	-	-	-	-	-	-	-
6AV6	-	-	EBC91 ABC91	-	-	DH77	-	EBC91	DH77	-	6AQ6 6BK6
6AY5	6V6 6F6	-	-	-	-	KT63	-	-	KT63	6V6 6F6	6V6 6F6 6K6 6A5 6Q7 5638 5749
6B4	-	-	-	-	-	-	-	-	-	-	-
6B6	-	-	-	-	-	DH63	-	-	DH63	-	-
6BA5	-	-	-	-	-	-	-	-	-	-	-
6BA6	5749	-	EF93 PM04	-	-	-	-	EF93	W727	-	-
6BC5	-	-	EF96	-	-	-	-	EF96	-	-	6AG5
6BD7	-	-	EBC80	-	-	-	-	EBC80	-	-	-
6BE6	5750	-	EK90 HM04 EQ80	-	-	X77	-	EK90	X727	-	5750
6BE7	-	-	-	-	-	-	-	EQ80	-	-	-
6BF6	-	-	-	-	-	-	-	-	-	-	6BU6
6BF7	-	-	-	-	-	-	-	-	-	-	6BG7
6BG7	-	-	-	-	-	-	-	-	-	-	6BF7
6BH5	-	-	EF81	-	-	-	-	EF81	-	-	-
6BK6	-	-	EBC91 ABC91	-	-	DH77	-	EBC91	DH77	-	6AQ6 6AV6
6BM5	-	-	6P9	-	-	-	-	-	-	-	-
6BN5	-	-	EL85	-	-	-	-	EL85	-	-	-
6BQ6	-	-	-	-	-	-	-	-	-	-	-
6BR5	-	-	EM80	-	-	-	-	EM80	-	-	6CU6
6BR7	8D5 6059	-	-	-	-	-	-	-	-	-	6059
6BS7	8D7	-	-	-	-	-	-	-	-	-	-
6BT6	6066	-	EBC90	-	-	DH77	-	EBC90	DH77	-	6AT6 6066 6BF6 6061 6BX6
6BU6	-	-	-	-	-	-	-	-	-	-	-
6BW6	6061	-	-	-	-	-	-	-	-	-	-
6BW7	6BX6	64SPT 6BX6	EF80	-	-	Z152	-	EF80	Z719	-	6061 6BX6
6BX6	6BW7	64SPT 6BW7	EF80	-	-	Z152	-	EF80	Z719	-	6BW7
6BY7	-	-	EF85	-	-	-	-	EF85	-	-	-
6C4	-	-	EC90	-	-	L77 QL77 L63	-	EC90	L77 QA2401 L63	-	6125
6C5	6J5	-	-	-	-	-	-	-	-	-	6J5 6L5

TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI OF EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
6C6	-	-	-	-	-	-	-	-	-	-	77
6C9	-	62TH	ECH42	-	-	X150	6C10	ECH42	-	-	7700
6C10	-	62TH	ECH42	-	-	X150	6C9	ECH42	-	-	-
6C31	6K8	OM10	ECH3G ECH35	-	-	X61M X62 X65 X66 X147	-	ECH33 ECH35	X61M X62 X65 X66	6E8 6TH8	6E8 6K8 6J8 6P8
6CA7	-	-	EL34	-	-	-	-	EL34	-	-	-
6CB6	-	-	-	-	-	-	-	-	-	-	6CF6
6CF6	-	-	-	-	-	-	-	-	-	-	6CB6
6CH6	6132 7D10	-	EF82	-	-	-	-	EF82	-	-	6132
6CD7	-	64ME	EM34	-	-	-	-	EM34	-	-	-
6CJ6	-	-	EL81	-	-	-	-	EL81	-	-	-
6CK6	-	-	EL83	-	-	-	-	EL83	-	-	-
6CN6	-	-	EL38	-	-	-	-	EL38	-	-	-
6CQ6	9D6 6065	VP6	EF92	-	-	W77 QW77	-	EF92	W77 QA2400	-	6065
6CU6	-	-	-	-	-	-	-	-	-	-	6BQ6
6D1	-	SD61	EA50	-	-	-	-	EA50	-	-	-
6D2	6AL5 6058	DD6	EAA91 D2M9	-	DD6	D152 QD77	-	EB91	D77 QA2404	DD6G	6AL5 5726 78
6D6	-	-	-	-	-	X73M	-	-	X73M	-	-
6D8	-	-	-	-	-	-	-	-	-	-	-
6E5	-	-	-	-	-	-	-	-	-	-	6T5
6E8	6K8*	OM10	ECH3G ECH33	-	6K8*	X61M* X62 X65* X66 X147*	-	ECH33 ECH35*	X61M* X62 X65* X66	6K8* 6TH8	6K8* 6J8* 6P8
6F5	-	-	-	-	-	-	-	-	H63	-	-
6F6	6V6	-	-	-	-	N63 KT63	-	-	N63 KT63	6V6	6V6
6F12	6AM6 8D3 6064	SP6	EF91 PM07	-	6AM6	Z77 QZ77	-	EF91 M8083	Z77 QA2403	HP6	6AM6
6F13	-	-	EF42 HF62	-	-	Z150	-	EF42	-	-	-
6F15	-	62VP	EF41 HF61	-	-	W150	-	EF41	-	-	-
6F16	-	62VP	EF41 HF61	-	-	W150	-	EF41	-	-	-
6G5	6U5	-	-	-	-	-	-	-	-	-	6H5
6G5G	6U5G	63ME	EM35	-	VFT6	-	6M1	EM35	Y61 Y62 Y63 Y64	6G5G 6U5G	6U5 6G5
6H5	6G5 6U5	-	-	-	-	-	-	-	-	-	6U5 6G5
6H6	-	OM3	-	-	-	D63* L63	-	EB34	D63* L63	-	6C5 6L5
6J5	-	-	-	-	-	-	-	-	-	-	6101
6J6	-	-	ECC91	-	-	-	-	ECC91	-	-	6101
6J7	-	-	-	-	-	Z63 KTZ63	-	M8081	-	-	7000
6J8	6K8*	OM10	ECH3G	-	6K8*	X61M* X62 X65* X66 X147*	6C31	ECH33 ECH35	Z63 KTZ63 X61M* X62 X65* X66	6K8* 6TH8 6E8*	6K8* 6E8* 6P8
6K4	-	-	EC70	-	-	-	-	EC70	-	-	5718
6K6	-	-	-	-	-	KT63	-	-	KT63	-	6F6 6V6 6AY5
6K7	-	-	-	-	-	KTW63 W61 W63	-	-	KTW63 W61 W63	-	6U7 5732

* Series or parallel circuits.

COMMERCIAL EQUIVALENTS

6K8-6U5G

TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI or EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
6K8	-	OM10	ECH3G ECH35*	-	-	X61M* X62 X66 X147* L63	6C31	ECH35* ECH33	X61M* X62 X65* X66 L63	6TH8 6E8*	6E8* 6J8* 6P8
6L5	6J5	-	-	-	-	-	-	-	-	-	6C5 6J5
6L6	-	-	EL37	-	-	KT66	-	EL37	KT66	PP60	5881 5932
6L7	-	-	-	-	-	X64	-	-	X64	-	-
6L34	-	-	EC91	-	-	-	-	EC91	-	-	6AQ4
6LD3	-	62DDT	EBC41	-	-	DH150	-	EBC41	-	-	-
6M1	6G5G 6U5G	63ME	EM35	-	VFT6	-	-	EM35	Y61 Y62 Y63 Y64	6G5G 6U5	-
6M5	-	-	EL80	-	-	-	-	EL80	-	-	-
6M6	-	-	6PX6 EL33	-	-	N147 KT61	6P25	EL33	KT61	PP6BG	6AG6
6N5	-	-	-	-	-	-	-	-	-	-	6AB5
6N6	-	-	-	-	-	-	-	-	-	-	6AB6
6N7	-	-	-	-	-	-	-	-	-	-	5694
6N8	-	-	EBF80	-	-	ZD152	-	EBF80	-	-	-
6P5	-	-	-	-	-	-	-	-	-	-	6AF5
6P8	6K8	OM10	ECH3G ECH35	-	6K8	X147 X61M X62 X65 X66	6C31	ECH33 ECH35	X61M X62 X65 X66	6K8 6E8 6TH8	6K8 6E8 6J8 6P8
6P9	-	-	-	-	-	-	-	-	-	-	6BM5
6P25	-	-	6PX6 EL33 EL33	-	-	N147 KT61 N147 KT61	-	EL33	KT61	PP6BG	6AG6 6M6 6AG6 6M6
6PX6	-	-	-	-	-	-	6P25	EL33	KT61	PP6BG	-
6Q4	-	-	EC80	-	-	-	-	EC80	-	-	-
6Q6	-	-	-	-	-	DH73 DH63	-	-	DH73 DH63	-	6T7 6B6
6Q7	-	-	-	-	-	-	-	-	-	-	-
6R4	-	-	EC81	-	-	-	-	EC81	-	-	-
6S7	-	-	-	-	-	KTW61	-	-	KTW61	-	-
6SD7	-	-	-	-	-	-	-	-	-	-	6SG7
6SE7	-	-	-	-	-	-	-	-	-	-	6SH7
6SG7	-	-	-	-	-	-	-	-	-	-	6SD7
6SH7	-	-	-	-	-	-	-	-	-	-	6SE7
6SJ7	-	-	-	-	-	-	-	-	-	-	5693
6SK7	-	-	-	-	-	-	-	-	-	-	6SS7
6SL7	-	-	-	-	-	-	-	ECC35	-	-	6137 6SU7 5691
6SN7	5692 6180	-	-	-	-	B65 QB65	-	ECC32 ECC33	B65 QA2408	-	5692 6180 6SZ7
6SQ7	-	-	-	-	-	-	-	-	-	-	6ST7
6SR7	-	-	-	-	-	-	-	-	-	-	6SK7
6SS7	-	-	-	-	-	-	-	-	-	-	6137
6ST7	-	-	-	-	-	-	-	-	-	-	6SR7
6SU7	-	-	-	-	-	-	-	ECC35	-	-	6SL7 5691
6SZ7	-	-	-	-	-	-	-	-	-	-	6SQ7
6T5	-	-	-	-	-	-	-	-	-	-	6E5
6T7	-	-	-	-	-	DH73	-	-	DH73	-	6Q6
6T8	-	-	EABC80	-	-	-	-	EABC80	-	-	6AK8
6TH8	6K8	OM10	ECH3G ECH35	-	6K8	X61M X62 X65 X66 X147	6C31	ECH33 ECH35 EY80	X61M X62 X65 X66	6K8 6E8	6K8 6E8 6J8 6P8
6U3	-	-	EY80	-	-	-	-	EY80	-	-	-
6U4	-	-	-	-	-	-	-	-	-	-	6W4
6U5	6G5	-	-	-	-	-	-	-	-	-	6G5 6H5
6U5G	6G5G	63ME	EM35	-	VFT6	-	6M1	EM35	Y61 Y62 Y63 Y64	6G5G	-

* Series or parallel circuits.

TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI or EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
6U6	-	-	-	-	-	-	-	-	-	-	6W6
6U7	6K7	-	-	-	-	KTW63 W61 W63	-	-	KTW63 W61 W63	6K7	6Y6 6K7 5732
6V4	-	-	EZ80	-	-	-	-	EZ80	-	-	-
6V6	-	-	-	-	-	KT63	-	-	KT63	-	6F6 6AY5 6K6 6M6 5636 5871 6U4 6X5 6ZY5 5852 6U6 6Y6
6W4	-	-	-	-	-	-	-	-	-	-	-
6W5	6X5	-	EZ35	-	6X5	U70 U147	-	EZ35	U70	-	6U4 6X5 6ZY5 5852 6U6 6Y6
6W6	-	-	-	-	-	-	-	-	-	-	-
6W7	8D4	-	-	-	-	-	-	-	-	-	-
6X2	R12	SU61	EY51 EZ90	-	-	U151 U78 QU78	-	EY51 EZ90	U43 U78 QA2407	-	6063 6202 6203 6W5 6ZY5 5852 6W6 6U6 6Y6
6X4	6063	-	V2M70	-	-	-	-	-	-	-	-
6X5	-	-	EZ35	-	-	U70 U147	-	EZ35	U70	-	6063 6202 6203 6W5 6ZY5 5852 6W6 6U6 6Y6
6Y6	-	-	-	-	-	-	-	-	-	-	-
6Z3	-	-	-	-	-	-	-	-	-	-	1 1V 84
6Z4	-	-	-	-	-	-	-	-	-	-	84
6ZY5	6X5	-	EZ35	-	6X5	U70 U147	-	EZ35	U70	-	6X5 6W5 5852
7A2	-	MP/Pen	-	A70B	-	MKT4 MPT4 N40	AC/Pen	Pen4VA	MKT4 MPT4	APP4A	-
7A3	-	42MP/Pen 42/OT	-	A70C A70D	PT4	KT41 N41	AC/2Pen	PenA4	KT41 N41	APP4B	-
7A6	-	-	-	-	-	-	-	-	-	-	5679
7A7	-	-	-	-	-	W143 W148	-	-	W81	-	7H7
7AG7	-	-	-	-	-	-	-	-	-	-	7AH7
7AH7	-	-	-	-	-	-	-	-	-	-	7AG7
7AJ7	-	-	-	-	-	-	-	-	-	-	7C7
7AN7	-	-	PCC84	-	-	-	30L1	PCC84	-	-	-
7B5	-	-	EL22	-	-	KT81 N148 DH81 DL82 W149	-	EL22	KT81 N148 DH81 DL82 W149	-	7C5
7B6	-	-	-	-	-	-	-	-	-	-	-
7B7	-	-	-	-	-	-	-	-	-	-	-
7C5	-	-	EL22	-	-	KT81 N148 DH149	-	EL22	KT81 N148 DH149	-	7B5
7C6	-	-	-	-	-	-	-	-	-	-	-
7C7	-	-	-	-	-	-	-	-	-	-	7AJ7
7D3	-	40PPA	-	-	-	-	-	-	-	-	-
7D5	-	-	-	-	-	-	-	-	-	PP13A	-
7D6	-	-	-	C70D	PTZ	-	Pen3520	Pen36C	EL91	PP35	-
7D9	6AM5	6AM5	EL91	-	6AM5	N77 N144 QN77	-	M8082	N77 QA2402	-	6AM5
7D10	6CH6 6132	-	EF82	-	-	-	-	EF82	-	-	6CH6 6132
7G7	-	-	EF22	-	-	-	-	EF22	-	-	7L7 7T7 1232 7A7
7H7	-	-	-	-	-	W81 W143 X148	-	-	W81	-	7S7 7G7 7T7 1232
7J7	-	-	-	-	-	-	-	-	-	-	-
7L7	-	-	EF22	-	-	-	-	EF22	-	-	-

COMMERCIAL EQUIVALENTS

7S7-12SN7

TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI or EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
7S7	-	-	-	-	-	X148	-	-	-	-	7J7
7T7	-	-	EF22	-	-	-	-	EF22	-	-	7G7 7L7 1232 1231 XXFM 7Z4
7V7	-	-	-	-	-	-	-	-	-	-	1231
7X7	-	-	-	-	-	-	-	-	-	-	XXFM
7Y4	-	-	-	-	-	U149	-	-	U82	-	7Z4
7Z4	-	-	V61	-	-	-	-	-	U82	-	7Y4
8A1	-	MS/Pen	-	A50A	SPT4A	U149 MSP4	AC/S2Pen 30C1	SP4 PCF80	M5P4	HP4101/5	-
8A8	-	-	PCF80	-	-	-	-	PCF80	-	-	-
8D2	-	13SPA	CF1 CF7	-	-	-	-	SP13C	-	SP13	-
8D3	6AM6 6064	SP6	EF91 PM07	-	6AM6	Z77 QZ77	6F12	EF91 M8083	Z77 QA2403	HP6	6AM6
8D4	-	-	-	-	-	-	-	-	-	-	6W7
8D5	6BR7	-	-	-	-	-	-	-	-	-	6BR7 6059 6BS7
8D7	6BS7	-	-	-	-	-	-	-	-	-	6BS7
9A1	-	MVS/Pen	AF2	A50M A50N	VPT4	VMP4G	AC/VP1	VP4 VP4A	VMP4G	HP4106c	-
9BM5	-	-	9P9	-	-	-	-	-	-	-	-
9D2	-	13VPA	-	C50N	-	-	VP1322	VP13C	-	VP13K	-
9D6	6065	VP6	EF92	-	-	W77 QW77	-	EF92	W77 QA2400	-	6CQ6
9P9	-	-	-	-	-	-	-	-	-	-	9BM5
9U8	-	-	PCF82	-	-	-	-	PCF82	-	-	-
10C1	-	-	-	-	-	X145	-	-	-	-	-
10D1	-	-	-	C20C	-	-	-	2D13C	-	DD13	-
10F1	-	-	-	-	-	Z145	-	-	-	-	-
10F3	-	-	UF42	-	-	Z142	-	UF42	Z142	-	-
10F9	-	-	UF41	-	-	W142	-	UF41	W142	-	-
10LD3	-	-	HF121	-	-	W145	-	-	W145	-	-
10LD11	-	-	UBC41	-	-	DH142	-	UBC41	-	-	-
10P13	-	-	-	-	-	DL145	-	-	-	-	-
10P14	-	45IPT	UL41	-	-	N145 N142	-	UL41 UL46	N142	-	-
11A2	11A1	DDT	-	A23A	H4D	MHD4	AC/HLDD	TDD4	MHD4	DDT DDT4 DDT13	-
11D3	-	13DHA 202DDT	-	C23B	HAD	-	HLDD1320	TDD13C	-	-	-
11D5	-	-	-	-	HSD	DH30	-	-	DH30	-	-
12A	-	-	-	-	-	-	-	-	-	-	71A
12A6	-	-	-	-	-	-	-	-	-	-	5659
12AL5	-	-	-	-	-	-	-	-	-	-	-
12AT6	-	-	HAA91 UAA91	-	-	-	-	-	-	-	-
12AT7	6060	-	HBC90 ECC81	-	-	B152 B309 QB309	-	ECC81	B309 QA2406	-	6060 6201
12AU6	-	-	HF94	-	-	-	-	-	-	-	-
12AU7	6067	-	ECC82	-	-	-	-	ECC82	-	-	5814
12AV6	-	-	HBC91	-	-	-	-	-	-	-	12BK6
12AX7	6057	-	ECC83	-	-	-	-	ECC83	-	-	5721 5751 6072 14A7
12AY7	-	-	-	-	-	-	-	-	-	-	-
12B7	-	-	-	-	-	-	-	-	-	-	-
12BA6	-	-	HF93	-	-	-	-	HF93	-	-	-
12BE6	-	-	HK90	-	-	-	-	HK90	-	-	-
12BF6	-	-	-	-	-	-	-	-	-	-	12EU6
12BK6	-	-	HBC91	-	-	-	-	-	-	-	12AV6
12BU6	-	-	-	-	-	-	-	-	-	-	12BF6
12C8	-	-	-	-	VP12D	-	-	-	-	-	-
12K7	-	-	-	-	-	W76	-	-	W76	-	-
12K8	-	-	-	-	-	X76M	-	-	X76M	-	-
12L8	-	-	-	-	-	-	-	-	-	-	1644
12Q7	-	-	-	-	-	DH76 DL74M	-	-	DH76 DL74M	-	-
12SA7	-	-	-	-	-	-	-	-	-	-	12SY7
12SC7	-	-	-	-	-	-	-	-	-	-	1634
12SN7	-	-	-	-	-	B36	-	-	B36	-	12SX7

TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI or EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
12SR7	-	-	-	-	-	-	-	-	-	-	12SW7
12SW7	-	-	-	-	-	-	-	-	-	-	12SR7
12SX7	12SN7	-	-	-	-	B36	-	-	B36	-	12SN7
12SY7	-	-	-	-	-	-	-	-	-	-	12SA7
12Z3	-	-	-	-	-	-	-	-	-	-	14Z3
13D1	25SN7	-	-	-	-	-	-	-	-	-	25SN7
	6042	-	-	-	-	-	-	-	-	-	6042
13D3	6158	-	-	-	-	-	-	-	-	-	6158
13DHA	11D3	-	-	C23B	HAD	-	HLDD1320	TDD13C	-	DDT13	-
13PGA	15D1	-	-	C80B	VHTA	-	-	FC13C	-	VO13	-
13SPA	8D2	-	CF1 CF7	-	-	-	-	SP13C	-	SP13	-
13VPA	9D2	-	-	C50N	-	-	VP1322	VP13C	-	VP13K	-
14A7	-	-	-	-	-	-	-	-	-	-	12B7
14AF7	-	-	-	-	-	-	-	-	-	-	14N7
14C7	-	-	-	-	-	-	-	-	-	-	XXD
14J7	-	-	-	-	-	-	-	-	-	-	1280
14N7	-	-	-	-	-	-	-	-	-	-	14S7
14S7	-	-	-	-	-	-	-	-	-	-	14AF7
14Z3	-	-	-	-	-	-	-	-	-	-	XXD
15A2	-	41MPG	AK1	A80A	VHT4	MX40 X42 N153 N309	-	FC4	MX40 X42 N309	MH4105	14J7
15A6	-	-	PL83	-	-	-	-	PL83	-	-	12Z3
15D1	15D2	13PGA	-	C80B	VHTA	-	-	FC13C	-	VO13	-
16A5	-	163Pen	PL82	-	-	-	-	PL82	N329	-	-
17Z3	-	-	PY81	-	-	U153	-	PY81	-	-	-
19AJ8	-	-	HCH81	-	-	-	-	-	-	-	-
19AQS	-	-	HL90	-	-	-	-	-	-	-	-
19BD	-	19X3	PY80	-	-	U152 U309	-	PY80	U152 U309	-	19U3
19SU	-	19Y3	PY82	-	-	U154	-	PY82	U319	-	19X3
19T8	-	-	HABC80	-	-	-	-	-	-	-	19Y3
19U3	-	19BD	PY80	-	-	U152 U309	-	PY80	U152 U309	-	19X3
19X3	-	19X3	PY80	-	-	U152 U309	-	PY80	U152 U309	-	19U3
19Y3	-	19SU	PY82	-	-	U154	-	PY82	U319	-	-
20A1	-	41STH	-	A36A A36B	-	X41	AC/TH1	TH4 TH4B	X41	TH4A	-
21A6	-	213Pen	PL81	-	-	N152	-	PL81 PL820	N339	-	-
24A	-	-	-	-	-	-	-	-	-	-	35
25A6	-	-	-	-	-	KT33	-	-	KT33	-	51
25B6	-	-	-	-	-	-	-	-	-	-	5824
25L6	-	-	-	-	-	KT32	-	-	KT32	-	-
25RE	25Y5	-	-	-	-	-	-	-	-	-	25Y5
25SN7	13D1	-	-	-	-	-	-	-	-	-	6042
	6042	-	-	-	-	-	-	-	-	-	-
25X6	-	-	-	-	-	-	-	-	-	-	25Z6
25Y4	-	-	-	-	-	U31	-	PY31	-	-	25Z4
25Y5	-	25RE	-	-	-	-	-	-	-	-	25Z5
25Z4	-	-	-	-	-	-	-	-	-	-	25Y4
25Z5	25Y5	25RE	-	-	-	-	-	PY31	-	-	25Y5
25Z6	-	-	-	-	-	-	-	-	-	-	25X6
26B6	-	-	-	-	-	-	-	-	-	-	26D6
26D6	-	-	-	-	-	-	-	-	-	-	26B6
27	-	-	-	-	-	-	-	-	-	-	56
30C1	-	-	PCF80	-	-	-	-	PCF80	-	-	8A8
30L1	7AN7	-	PCC84	-	-	-	-	PCC84	-	-	7AN7
32	-	-	-	-	-	-	-	-	-	-	34
34	-	-	-	-	-	-	-	-	-	-	32
35	-	-	-	-	-	-	-	-	-	-	24-A
35W4	-	-	HY90	-	-	-	-	HY90	-	-	51
35Z4	-	-	-	-	-	U76	-	-	U76	-	-
36	-	-	-	-	-	-	-	-	-	-	39
37	-	-	-	-	-	-	-	-	-	-	44
39	-	-	-	-	-	-	-	-	-	-	76
	-	-	-	-	-	-	-	-	-	-	36
	-	-	-	-	-	-	-	-	-	-	44

COMMERCIAL EQUIVALENTS

TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI or EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
40	-	-	-	-	-	-	-	-	-	-	00A 01A
40PPA	7D3	-	-	-	-	-	-	-	-	-	-
40SUA	1D5	-	CY1C	C10B	RZ	-	U4020	UR1C	-	-	-
40Z5	-	-	-	-	-	-	-	-	-	-	45Z5
41	-	-	-	-	-	-	-	-	-	-	42
41FP	-	-	-	-	-	-	AC/P	-	-	-	-
41MH	HLA2	-	-	A30B	-	MH41	AC/2HL	484V	MH41	HL4+	-
41MHF	-	-	-	-	-	MH4	AC/HL	354V	MH4	HL4+	-
41MHL	HLA2	-	-	A30D	D4	MH4	AC/HL	244V 354V	MH4	HL4+	-
41MLF	-	-	-	-	-	-	-	244V	-	HL4+	-
41MP	-	-	-	-	L4	ML4	AC/P	TT4	ML4	LL4	-
41MPG	15A2	-	-	A80A	VHT4	MX40 X42	-	FC4	MX40 X42	MH4105	-
41MPT	-	-	-	-	-	-	-	-	-	HP4101	-
41MRC	-	-	-	-	-	-	AC/2HL	-	-	HL4+	-
41MSG	-	-	-	-	-	-	AC/SG	SP4	-	AS4120	-
41MXP	-	-	-	-	-	-	AC/P1	054V	-	LL4	-
41PGD	15A2	-	-	A80A	VHT4	MX40 X42	-	FC4	MX40 X42	MH4105	-
41STH	20A1	-	-	A36A A36B	-	X41	AC/TH1	TH4	X41	-	-
42	-	-	-	-	-	-	-	-	-	-	41
42MP/ Pen	7A3	420T	-	A70C A70D	PT4	KT41 N41	AC/2Pen	PenA4	KT41 N41	APP4B	-
42/OT	7A3	42MP/Pen	-	A70C A70D	PT4	KT41 N41	AC/2Pen	PenA4	KT41 N41	APP4B	-
42/ OTDD	-	-	-	-	PT4D	DN41	AC/2 PenDD	-	DN41	DDPP4B	-
43IU	R3	-	1861 AHC	-	-	MU14	UU5	IW4/350 IW4,500	MU14	APV4	-
44	-	-	-	-	-	-	-	-	-	-	36 39
44IU	R3	-	-	-	-	-	UU5	IW4/500	-	-	-
45	-	-	-	-	-	-	-	-	-	-	2A3
45Z5	-	-	-	-	-	-	-	-	-	-	40Z5
47	-	-	-	-	-	-	-	-	-	-	1610
50C5	-	-	HL92	-	-	-	-	HL92	-	-	-
50L6	-	-	-	-	-	KT71	-	-	KT71	-	-
50Y6	-	-	-	-	-	-	-	-	-	-	50Z7
50Z7	-	-	-	-	-	-	-	-	-	-	50Y6
51	-	-	-	-	-	-	-	-	-	-	24-A 35 6A4
52	-	-	-	-	-	-	-	-	-	-	-
52KU	-	53KU	GZ34	-	-	-	-	GZ32	-	-	-
53KU	-	-	GZ33	-	-	-	-	GZ33	-	-	-
54KU	-	53KU	GZ34	-	-	-	-	GZ32	-	-	-
56	-	-	-	-	-	-	-	-	-	-	27
57	-	-	-	-	-	-	-	-	-	-	58
58	-	-	-	-	-	-	-	-	-	-	57
62DDT	-	-	EBC41	-	-	DH150	6LD3	EBC41	-	-	-
62TH	-	-	ECH42	-	-	X150	6C9 6C10	ECH42	-	-	-
62VP	-	-	HF61	-	-	W150	6F15 6F16	EF41	-	-	-
63ME	6G5G 6U5G	-	EM35	-	VFT6	-	6M1	EM35	Y61 Y62 Y63 Y64 Z90	6G5G 6U5G	-
63SPT	-	-	EF50	-	-	-	-	EF50	-	-	EF50
63T1	-	6AB8	ECL80	-	-	LN152	-	ECL80	-	-	-
64ME	-	-	EM34	-	-	-	-	EM34	-	-	6CD7
64SPT	6BW7 6BX6	6BX6	EF80	-	-	Z152	-	EF80	Z19	-	6BW7 6BX6
66KU	-	-	EZ40 V61	-	-	U150	UU9	EZ40	-	-	-
67PT	-	-	EL41 BF61	-	-	N150	-	EL41	-	-	-
71A	-	-	-	-	-	-	-	-	-	-	12A
76	-	-	-	-	-	-	-	-	-	-	37

TYPE	PRIMAR	COSSOR	EUPN	EV. RDY.	FERRANTI	MARCONI or EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
77	-	-	-	-	-	-	-	-	-	-	6C6
7E	-	-	-	-	-	-	-	-	-	-	7700
84	-	-	-	-	-	-	-	-	-	-	6D6
85A1	-	-	-	-	-	-	-	-	-	-	6Z4
85A2	-	-	-	-	-	-	-	-	-	-	OE3
164V	PA1	41MP	-	-	L4	QS83/3 ML4	AC/P	-	QS83/3 ML4	LL4	OG3
117L7	-	-	-	-	-	-	-	-	-	-	117M7
117M7	-	-	-	-	-	-	-	-	-	-	117L7
117N7	-	-	-	-	-	-	-	-	-	-	117P7
117P7	-	-	-	-	-	-	-	-	-	-	117N7
141TH	-	-	UCH42	-	-	X142	-	UCH42	-	-	-
154V	-	-	-	-	-	-	-	-	-	HL4+	-
163Pen	-	16A5	PL82	-	-	-	-	PL82	N329	-	-
171DDP	-	-	UBF80	-	-	-	-	UBF80	-	-	-
202DDT	11D3	13DHA	-	C23B	HAD	-	HLDD1320	TDD13C	-	DDT13	-
202STH	-	-	-	C36A	-	-	TH2321	TH21C	-	-	-
210DDT	-	-	-	K23B	H2D	HD24	HL21/DD	TDD2A	HD24	-	-
210DEF	-	-	-	-	-	-	-	PM2HL	-	LD210	-
216HF	HLB1	-	-	K30C	HL2	HL2	HL2	PM2HL	HL2	HR210	-
210HL	-	-	-	K30A	-	HL21	HL210	PM2HL	HL21	HL2	-
210LF	-	-	-	K30K	L2	L21	L2	PM2DX	L21	LD210	-
210PG	-	-	-	K30C	-	-	-	-	-	-	-
210PGA	-	210SPG	-	K80A	VHT2A	X22	-	FC2	X22	-	-
210RC	HLB1	-	-	K80B	VHT2A	X21	-	FC2A	X21	-	-
210SPG	-	210PGA	-	K30A	HL2	HL2	HL2	PM2HL	HL2	HR210	-
210SPT	-	-	-	K80B	VHT2A	X21	-	FC2A	X21	-	-
210VPA	-	-	-	-	SPT2	Z21	SP210	SP2	Z21	HP210nc	-
219VPT	-	-	-	-	-	Z22	-	-	Z22	-	-
213Pen	-	21A6	PL81	K50M	VPT2	VW21	VP210	-	VW21	-	-
215P	-	-	-	-	-	VP21	VP210	VP21	VP21	HP211c	-
215SG	-	-	B262	-	S2	N152	-	PL81	N339	-	21A6
220B	-	240B	-	K33A	HP2	-	P215	-	P215	P215	-
220DD	-	-	-	-	-	-	SG215	PM12	S23	SS210	-
220HPT	-	-	-	-	-	-	SG215A	PM12M	-	-	-
220/OT	PenB1	-	-	-	-	-	PD220	PM2B	B21	CB215	-
220P	-	-	-	-	-	-	-	2D2	-	-	-
220PA	PB1	-	-	K70B	PT2	KT2	Pen220	PM22A	-	-	-
220PT	-	-	-	-	-	-	Pen220	PM22A	KT2	-	-
220SG	5B1	215SG	-	K30G	-	-	-	PM2	-	LP220	-
220TH	-	-	-	-	-	-	-	PM2A	LP2	LP220	-
220VSG	-	-	-	-	-	-	-	-	PT240	PP225	-
230PT	-	-	-	-	-	-	-	-	S21	SS210	-
230XP	-	-	-	-	-	-	-	-	S22	-	-
240B	-	220B	-	K33A	HP2	P2	P220A	PM202	P2	SP220	-
240QP	-	-	-	K77B	QPT2	QP21	PD220	PM2B	B21	CB215	-
244V	HLA2	41MHL	-	A30D	D4	MH4	QP230	QP22B	QP21	-	-
302THA	-	-	-	C36B	-	-	AC/HL	354V	MH4	HL4+	-
311SU	-	-	UY41	C36C	-	-	TH2321	TH30C	-	-	-
332Pen	-	-	-	-	-	U142	-	-	UY41	-	-
354V	HLA2	41MHL	-	-	-	-	-	-	CL33	-	-
402/OT	-	402Pen	-	A30D	D4	MH4	AC/HL	-	MH4	HL4+	-
402Pen	-	402/OT	-	-	PTZ	-	-	-	-	PP34	-
408BU	R1	-	-	-	PTZ	-	-	-	-	PP34	-
442BU	R2	-	-	-	-	-	-	DW2	-	-	-
446A/B	-	-	-	-	-	-	-	DW4/350	-	RV120/350	-
451PT	-	-	UL41	-	-	N142	10P14	UL41	N142	-	1656
460BU	-	-	-	-	-	-	-	UL46	-	-	-
484V	HLA2	41MH	-	A30B	-	MH41	AC/2HL	DW4/500	-	-	-
506BU	R1	-	1861	-	-	U10	UU3	DW2	MH41	HL4+	-
									U10	RV120/350	-

COMMERCIAL EQUIVALENTS

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TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI or EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
807	5B/250A	-	QE06-50	-	-	-	-	QV05-25	-	-	5933
879	-	-	-	-	-	-	-	-	-	-	2X2
904V	HLA2	41MH	-	A30B	-	MH41	AC/2HL	-	MH41	HL4+	2Y2
951	-	-	-	-	-	-	-	-	-	-	1A4
954	-	-	E1F	-	-	ZA2	-	-	ZA2	-	1B4
955	-	-	E1C	-	-	HA2	-	-	HA2	-	5731
956	-	-	E2F	-	-	-	-	-	-	-	1650
957	-	-	D1C	-	-	-	-	-	-	-	-
958A	-	-	D2C	-	-	-	-	-	-	-	-
959	-	-	D3F	-	-	-	-	-	-	-	-
994V	-	-	-	-	-	-	-	154V	-	HL4+	-
1231	-	-	-	-	-	-	-	-	-	-	7V7
1232	-	-	EF22	-	-	-	-	EF22	-	-	7G7
1275	-	-	-	-	-	-	-	-	-	-	7L7
1280	-	-	-	-	-	-	-	-	-	-	7T7
1291	-	-	-	-	-	-	-	-	-	-	5Z3
1294	-	-	-	-	-	-	-	-	-	-	14C7
1299	-	-	-	-	-	-	-	-	-	-	3B7
1561	-	-	-	-	R4A	U14	UU120/500	DW4/500	U14	RV120/500	1R4
1603	-	-	-	-	-	-	-	-	-	-	3D6
1610	-	-	-	-	-	-	-	-	-	-	3LF4
1611	-	-	-	-	-	-	-	-	-	-	7700
1612	-	-	-	-	-	-	-	-	-	-	47
1613	-	-	-	-	-	-	-	-	-	-	6F6
1614	-	-	-	-	-	-	-	-	-	-	6L7
1620	-	-	-	-	-	-	-	-	-	-	6F6
1621	-	-	-	-	-	-	-	-	-	-	6L6
1622	-	-	-	-	-	-	-	-	-	-	6J7
1634	-	-	-	-	-	-	-	-	-	-	6F6
1637	-	-	-	-	-	-	-	-	-	-	6L6
1638	-	-	-	-	-	-	-	-	-	-	12SC7
1639	-	OM4*	-	-	-	DH147* DL63	-	EL32 EB34 EBC33*	DL63	-	-
1642	-	-	-	-	-	-	-	-	-	-	2C21
1644	-	-	-	-	-	-	-	-	-	-	12L8
1649	-	-	-	-	-	-	-	-	-	-	6AC7
1650	-	-	E1C	-	-	-	-	-	-	-	6AJ7
1655	-	-	-	-	-	-	-	-	-	-	18S2
1656	-	-	-	-	-	-	-	-	-	-	6134
1659	-	-	-	-	-	-	-	-	-	-	955
1662	-	-	-	-	-	-	-	-	-	-	5731
1664	-	-	-	-	-	-	-	-	-	-	6SC7
1821	-	500BU	-	-	-	U10	-	-	U10	-	446A/B
1852	-	-	-	-	-	-	-	-	-	-	2A6
1853	-	-	-	-	-	-	-	-	-	-	3A4
1861	R3	43IU	AHC	A11C	-	MU14	UU5	IW4/350	MU14	-	12C8
1867	R2	-	1868	A11B	-	MU12	UU4	IW4/350	MU12	APV4	6AC7
1868	R2	-	1881	A11D	-	-	-	-	-	-	6AJ7
1877	-	-	1867	A11B	-	MU12	UU4	IW4/350	MU12	APV4	18S2
1881	R2	-	1881	A11D	-	-	-	-	-	-	6134
5517	-	-	-	-	-	-	-	HVR2	-	V21/7000	955
5591	-	-	EF95	-	DP61	-	-	IW4/350	MU12	AP4V	5731
5608	-	-	PM05	-	-	-	-	-	-	-	6SC7
5638	-	-	-	-	-	-	-	-	-	-	446A/B
5641	-	-	EY70	-	-	-	-	EF95 M8100	-	-	2A6
								EY70			3A4
											12C8
											6AC7
											6AJ7
											1649
											6134
											6AB7
											-
											CK1013
											6AK3
											-
											5654
											6BA5
											SN954

* Series or parallel circuits.

TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI or EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A
5642	-	-	DY70	-	-	-	-	DY70	-	-	-
5647	-	-	EA71	-	-	-	-	EA71	-	-	-
	-	-	EA76	-	-	-	-	EA76	-	-	-
5654	-	-	-	-	-	-	-	-	-	-	5608
5659	-	-	-	-	-	-	-	-	-	-	12A6
5660	-	-	-	-	-	-	-	-	-	-	12C8
5661	-	-	-	-	-	-	-	-	-	-	12SK7
5676	-	-	-	-	-	-	-	-	-	-	CK556AX
5677	-	-	-	-	-	-	-	-	-	-	CK568AX
5678	-	-	-	-	-	-	-	-	-	-	CK569AX
5679	7A6	-	-	-	-	-	-	-	-	-	7A6
5691	6SL7	-	-	-	-	-	-	ECC35	-	-	6SL7
5692	6SN7	-	-	-	-	B65	-	ECC32	B65	6SN7	6SU7
	6180	-	-	-	-	QB65	-	ECC33	QA2408	-	6SN7
5693	-	-	-	-	-	-	-	-	-	-	6180
5694	-	-	-	-	-	-	-	-	-	-	6SJ7
5697	-	-	-	-	-	-	-	-	-	-	6N7
5702	-	-	-	-	-	-	-	-	-	-	CK570AX
5703	-	-	-	-	-	-	-	-	-	-	CK605CX
5704	-	-	-	-	-	-	-	-	-	-	CK608CX
5718	-	-	EC70	-	-	-	-	-	-	-	CK608BX
5721	12AX7	-	ECC83	-	-	-	-	ECC83	-	-	6K4
	6057	-	-	-	-	-	-	-	-	-	12AX7
5725	-	-	-	-	-	-	-	-	-	-	5751
5726	6AL5	DD6	EAA91	-	DD6	D77	6D2	EB91	D77	DD6G	6057
	6058	-	D2M9	-	-	D152	-	M8079	QA2404	-	6AS6
	-	-	-	-	-	QD77	-	-	-	-	6AL5
5731	-	-	E1C	-	-	-	-	-	-	-	6058
5732	6K7	6K7	-	-	6K7	KTW63	-	-	KTW63	6K7	955
	6U7	-	-	-	-	W61	-	-	W61	-	1650
	-	-	-	-	-	W63	-	-	W63	-	6K7
5744	-	-	-	-	-	-	-	-	-	-	6U7
5749	6BA6	-	EF93	-	-	-	-	EF93	W727	6BA6	CK619CX
	-	-	PM04	-	-	-	-	-	-	-	6BA6
5750	6BE6	-	EK90	-	-	X77	-	EK90	X727	6BE6	6BE6
	-	-	HM04	-	-	-	-	-	-	-	-
5751	12AX7	-	ECC83	-	-	-	-	ECC83	-	-	12AX7
	6057	-	-	-	-	-	-	-	-	-	5721
5763	6062	-	-	-	-	-	-	-	-	-	6057
5814	6067	-	ECC82	-	-	-	-	ECC82	-	-	6062
5824	-	-	-	-	-	-	-	-	-	-	12AU7
5840	-	-	EF72	-	-	-	-	-	-	-	25B6
5852	6X5	-	-	-	6X5	U70	-	EZ35	U70	-	5901
	-	-	-	-	-	U147	-	-	-	-	6X5
	-	-	-	-	-	-	-	-	-	-	6W5
5861	-	-	-	-	-	-	-	EC55	-	-	6ZY5
5871	6AG6	-	6PX6	-	-	N147	6P25	EL33	KT61	PP6BG	-
	-	-	EL33	-	-	-	-	-	-	-	6AG6
	-	-	-	-	-	-	-	-	-	-	6K6
	-	-	-	-	-	-	-	-	-	-	6M6
	-	-	-	-	-	-	-	-	-	-	6V6
	-	-	-	-	-	-	-	-	-	-	6AY5
5881	6L6	6L6	EL37	-	-	KT66	-	EL35	KT66	PP60	5636
	-	-	-	-	-	-	-	EL37	-	-	6L6
5886	-	-	-	-	-	-	-	-	-	-	5932
5896	-	-	-	-	-	-	-	-	-	-	CK571AX
5899	-	-	-	-	-	-	-	-	-	-	6052
5900	-	-	-	-	-	-	-	-	-	-	5900
5901	-	-	-	-	-	-	-	-	-	-	5899
5903	-	-	EF72	-	-	-	-	-	-	-	5840
5907	-	-	-	-	-	-	-	-	-	-	6053
5920	-	-	-	-	-	-	-	-	-	-	6056
5931	5U4	-	E90CC	-	-	U52	-	-	U52	5U4	-
	-	-	-	-	-	-	-	-	-	-	5U4
5932	6L6	6L6	EL37	-	-	KT66	-	EL37	KT66	PP60	5T4
	-	-	-	-	-	-	-	EL35	-	-	6L6
5933	5B/250A	807	QE06-50	-	807	-	-	QV05-25	-	-	5881
6065	6AQ5	-	EL90	-	-	-	-	EL90	N727	-	807
	-	-	BPM04	-	-	-	-	-	-	-	6AQ5

COMMERCIAL EQUIVALENTS

6007-6391

TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI or EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
6007	-	-	DL67	-	-	-	-	DL67	-	-	-
6008	-	-	DF67	-	-	-	-	DF67	-	-	-
6029	-	-	-	-	-	-	-	-	-	-	CK573XA
6042	13D1 25SN7	-	-	-	-	-	-	-	-	-	25SN7
6052	-	-	-	-	-	-	-	-	-	-	5896
6053	-	-	-	-	-	-	-	-	-	-	5903
6056	-	-	-	-	-	-	-	-	-	-	5907
6057	12AX7	-	ECC83	-	-	-	-	ECC83	-	-	5721 5751
6058	6AL5	DD6	EAA91 D2M9	-	DD6	D152 D77 QD77	6D2	EB91 M8079	D77 QA2404	DD6G	6AL5 5726
6059	8D5 6BR7	-	-	-	-	-	-	-	-	-	6BR7
6060	12AT7	-	ECC81	-	-	B152 B309 QB309	-	ECC81	B309 QA2406	-	12AT7 6201
6061	6BW6	-	-	-	-	-	-	-	-	-	6BW6
6062	5763	-	-	-	-	-	-	-	-	-	5763
6063	6X4	-	EZ90 V2M70	-	-	U78 QU78	-	EZ90	U78 QA2407	-	62J2 6X4 6203 6AM6
6064	6AM6 8D3	SP6	EF91 PM07	-	-	Z77 QZ77	6F12	EF91 M8083	Z77 QA2403	HP6	6AT6 6BT6 12AU7 5814 12AY7 6A57
6065	9D6	VP6	EF92	-	-	W77 QW77 DH77	-	EF92	W77 QA2400 DH77	-	6CQ6
6066	6AT6	-	EBC90	-	-	-	-	EBC90	-	-	6AT6 6BT6 12AU7 5814 12AY7 6A57
6067	-	-	ECC82	-	-	-	-	ECC82	-	-	6AT6 6BT6 12AU7 5814 12AY7 6A57
6072	-	-	-	-	-	-	-	-	-	-	-
6080	-	-	-	-	-	-	-	-	-	-	-
6084	-	-	E80F	-	-	-	-	-	-	-	-
6085	-	-	E80CC	-	-	-	-	-	-	-	-
6086	-	-	18042	-	-	-	-	-	-	-	-
6088	-	-	-	-	-	-	-	-	-	-	-
6101	-	-	ECC91	-	-	-	-	ECC91	-	-	CK522AX 616
6125	-	-	EC90	-	-	L77 QL77	-	EC90	L77 QA2401	-	6C4 6135 6CH6
6132	6CH6 7D10	-	EF82	-	-	-	-	EF82	-	-	6AC7 6AJ7 1649 1852 6C4 6125 6SK7 6SS7
6134	-	-	-	-	-	-	-	-	-	-	6AC7 6AJ7 1649 1852 6C4 6125 6SK7 6SS7
6135	-	-	EC90	-	-	L77	-	EC90	L77 QA2401	-	6C4 6125 6SK7 6SS7
6137	-	-	-	-	-	-	-	-	-	-	-
6157	R17	-	-	-	-	-	-	-	-	-	-
6158	13D3	-	-	-	-	-	-	-	-	-	-
6174	-	-	-	-	-	-	-	-	-	-	-
6180	6SN7 5692	-	-	-	-	B65 QB65	-	ECC32 ECC33	B65 QA2408	6SN7	CK1027 6SN7 5692
6201	6060	-	ECC81	-	-	B152 B309 QB309	-	ECC81	B309 QA2406	-	12AT7 6060
6202	6063 6X4	-	EZ90 V2M70	-	-	U78 QU78	-	EZ90	U78 QA2407	-	6X4 6063 6203 6X4 6063 6202
6203	6X4 6063	-	EZ90 V2M70	-	-	U78 QU78	-	EZ90	U78 QA2407	-	6X4 6063 6202
6218	-	-	E80T	-	-	-	-	-	-	-	-
6227	-	-	E80L	-	-	-	-	-	-	-	-
6237	-	-	EF86	-	-	Z729	-	EF86	-	-	-
6273	-	-	DL70	-	-	-	-	DL70	-	-	-
6274	R18	-	EY84	-	-	-	-	EY84	-	-	-
6275	-	-	DC70	-	-	-	-	DC70	-	-	-
6276	-	-	EF74	-	-	-	-	EF74	-	-	-

TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI or EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
7000	6J7	6J7	-	-	6J7	KTZ63 Z63	-	-	KTZ63 Z63	6J7	6J7
7700	-	-	-	-	-	-	-	-	-	-	6C6 77
8016	-	-	DY30	-	-	-	-	DY30	U41	-	1B3
18042	-	-	-	-	-	-	-	-	-	-	6086
18043	-	-	E83F	-	-	-	-	-	-	-	-
A11B	R2	-	1867	A11D	-	-	UU4	IW4/350	-	APV4	-
			1868								
			1881								
A11C	R3	-	1861	-	-	-	UU5	IW4/500	-	-	-
A11D	R2	-	1867	A11B	-	-	UU4	IW4/350	-	APV4	-
			1868								
			1881								
A20B	-	DDL4	-	-	-	-	V914	2D4A	D41	DD4	-
A23A	11A1 11A2	DDT	-	-	H4D	MHD4	AC/HLDD	TDD4	MHD4	DDT4	-
A27D	-	-	-	-	-	-	-	Pen4DD	-	DDPP4M	-
A30B	-	41MH	-	-	-	MH41	AC/2HL	484V	MH41	HL4+	-
A30D	HLA2	41MHL	-	-	D4	MH4	AC/HL	354V	MH4	HL4+	-
A36A	20A1	41STH	-	A36B	-	X41	AC/TH1	TH4	X41	TH4A	-
A36B	20A1	41STH	-	A36A	-	X41	AC/TH1	TH4	X41	TH4A	-
A36C	-	4THA	-	-	-	-	AC/TH1	TH4B	-	TH4B	-
A39A	-	-	-	-	-	-	-	TV4	-	ME4S	-
								TV4A			
A40M	-	-	-	-	-	-	AC/SGVM	-	-	AS4125	-
A50A	8A1	MS/Pen	-	-	SPT4A	MSP4	AC/S2Pen	SP4	MSP4	HP4101/5	-
A50B	-	MS/PenB	-	-	-	-	-	SP4B	-	SP4B	-
A50M	9A1	MVS/Pen	AF2	A50N	VPT4	VMP4G	AC/VP1	VP4	VMP4G	HP4106c	-
								VP4A			
A50N	9A1	MVS/Pen	AF2	A50M	VPT4	VMP4G	AC/VP1	VP4	VMP4G	HP4115/5	-
								VP4A			
A50P	-	MVS/PenB	-	-	-	W+2	AC/VP2	VP4B	W42	VP4B	-
A70B	7A2	MP/Pen	-	-	-	N40	AC/Pen	Pen4VA	N40	APP4A	-
						MKT4			MKT4		
						MPT4			MPT4		
A70C	7A3	42MP/Pen	-	A70D	PT4	KT41	AC/2Pen	PenA4	KT41	APP4B	-
		42OT				N41			N41		
A70D	7A3	42MP/Pen	-	A70C	PT4	KT41	AC/2Pen	PenA4	KT41	APP4B	-
		42OT				N41			N41		
A70E	-	-	-	-	-	-	AC/4Pen	PenB4	-	-	-
A80A	15A2	41MPG	AK1	A80M	VHT4	MX40	-	FC4	MX40	VO4	-
						X42			X42		
A80M	15A2	41MPG	-	A80A	VHT4	MX40	-	FC4	MX40	VO4	-
						X42			X42		
AA61	-	-	ECC40	-	-	-	-	ECC40	-	-	-
ABC91	-	-	EBC91	-	-	DH77	-	EBC91	DH77	-	6AQ6 6AV6 6BK6
AC/2HL	HLA2	41MRC	-	A30B	-	MH41	-	484V	MH41	HL4+	-
		41MH									
AC/2Pen	7A3	42MP/Pen	-	A70C	PT4	KT41	-	PenA4	KT41	APP4B	-
		42/OT		A70D		N41			N41		
AC/2 PenDD	-	42/OTDD	-	-	PT4D	DN41	-	-	DN41	DDPP4B	-
AC/4Pen	-	-	-	-	-	-	-	PenB4	-	APP4E	-
AC/5Pen	-	PT10	-	-	-	-	-	-	-	APP4B	-
AC104	-	-	-	-	-	-	PP3/250	-	-	-	-
AC/DD	-	-	-	-	-	-	-	-	-	DD4	-
AC/HL	HLA2	41MHL	-	A30D	D4	MH4	-	244V 354V	MH4	HL4+	-
								TDD4			
AC/ HLDD	11A1 11A2	DDT	-	A23A	H4D	MHD4	-	-	MHD4	DDT4	-
AC/ME	-	-	-	-	-	-	-	-	-	VME4	-
ACO42	-	2XP	-	S30D	-	-	PA20	-	-	-	-
ACO44	-	4XP	E406N	S30C	LP4	PX4	PP3/250	-	PX4	P12/250	-
ACO54	-	4XP	E406N	S30C	LP4	PX4	PP3/250	-	PX4	P12/250	-
ACO64	-	4XP	E406N	S30C	LP4	PX4	PP3/250	-	PX4	P12/250	-
ACO84	-	4XP	E406N	S30C	LP4	PX4	PP3/250	-	PX4	P12/250	-
AC/P	-	41FP	-	-	L4	ML4	-	104V	ML4	LL4	-
		41MP						TT4			
AC/P1	PA1	41MXP	-	-	-	-	-	054V	-	LL4	-
AC/P4	-	-	-	-	-	-	LL4C	-	-	-	-

COMMERCIAL EQUIVALENTS

AC/Pen-C503

TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI OF EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
AC/Pen	7A2	MP/Pen	-	A70B	-	N40 MKT4 MPT4	AC/Pen	Pen4VA	N40 MKT4 MPT4	APP4A	-
AC/S2 Pen	8A1	MS/Pen	-	A50A	SPT4A	MSP4	-	SP4	MSP4	HP4101	-
AC/SG	8A1	41MSG	-	-	-	MS4B	-	S4VB	MS4B	AS4120	-
AC/ SGVM	9A1	-	-	-	-	-	-	-	-	AS4125	-
AC/SP3	20A1	4T-1A	-	A36A	-	X41	-	TSP4	-	-	-
AC/TH1	-	41STH	-	A36B A36C	-	-	-	TH4B	X41	TH4A TH4B	-
AC/TP	-	-	-	-	-	-	-	TP4	-	TP4	-
AC/VP1	9A1	MVS/Pen	AF2	A50M A50N	VPT4	VMP4G	-	VP4 VP4A VP4B	VMP4G	VP4C	-
AC/VP2	-	MVS/PenB	-	A50P	-	W42	-	VP4	W42	VP4B	-
AF2	9A1	MVS/Pen	-	A50M A50N	VPT4	VMP4G	AC/VP1	VP4	VMP4G	HP4106c HP4115c	-
AG8	-	OM8	-	-	-	-	-	EK32	-	-	-
AHC	R3	431J	1861	-	-	MU14	UU5	IW4/500	MU14	-	-
AK1	15A2	41MPG	-	A80A	VHT4	MX40 X42	-	FC4	MX40 X42	VO4	-
AL3	-	-	AL4	-	-	-	-	-	-	APP4Bs	-
AL4	-	-	AL3	-	-	-	-	-	-	APP4Bs	-
APP4A	7A2	MP/Pen	-	A70B	-	N40 KT42 MPT4	AC/Pen	Pen4VA	N40 KT42	-	-
APP4B	7A3	42/OT 42MP/Pen	-	A70C A70D	PT4	N41 KT41	AC/2Pen	PenA4	KT41	-	-
APP4Bs	-	-	AL3 AL4	-	-	-	-	-	-	-	-
APP4E	-	-	-	-	-	-	AC/4Pen	PenB4	-	-	-
APP4G	-	-	-	-	-	N43	-	-	-	-	-
APV4	R2	43IU	1867 1868 1881	A11B A11D	-	MU12	UU4	IW4/350	MU12	-	-
APV4100	-	460BU	-	-	-	U12/14 U14	U120/S00	DW4/500	U12/14 U14	RV120/500	-
AS4120	-	41MSG	-	-	-	MS4	AC/SG	SP4	MS4	-	-
AS4125	-	MVSG	-	A40M	-	MS4B VMS4 VMS4B U143	AC/SGVM	MM4V	MS4B VMS4 VMS4B	-	-
AZ31	-	-	-	-	-	-	-	-	-	-	-
AZ41	-	-	V41	-	-	-	-	-	-	-	-
B21	-	-	-	K33B	-	-	PD220A	PM2BA	-	CB220	-
B36	12SN7	-	-	-	-	-	-	-	-	-	12SN7 12SX7
B63	-	-	-	-	-	-	-	-	-	-	6A6
B65	6SN7 5692 6180	6SN7	-	-	-	QB65	-	ECC32 ECC33	QA2408	6SN7	6SN7 5692 6180
B152	12AT7 6060	-	ECC81	-	-	B309 QB309	-	ECC81	B309 QA2406	-	12AT7 6201
B262	-	215SG	-	K40B	S2	S23	SG215 SG215A	PM12A PM12 ECC81	S23	SS210	-
B309	12AT7 6060	-	ECC81	-	-	B152 QB309	-	-	QA2406	-	12AT7 6201
BF61	-	67PT	EL41	-	-	N150	-	EL41	-	-	-
BF62	-	-	EL42	-	-	N151	-	EL42	-	-	-
BPM04	6AQ5	-	EL90	-	-	-	-	EL90	N727	-	6AQ5 6005
C10B	1D5	40SUA	CY1C	-	R2	-	U4020	UR'C	-	V20	-
C20C	10D1	-	-	-	-	-	-	2D13C	-	DD13	-
C23B	11D3	13DHA	-	-	HAD	-	HLDD1320	TDD13C	-	DDT13	-
C27D	-	-	-	-	-	-	Pen40DD	-	-	DDPP39M	-
C30B	4D1	-	CC2	-	DA	-	HL1320	HL13C	-	HL13	-
C36A	-	2025TH	-	-	-	-	TH2321	TH21C	-	-	-
C36B	-	302THA	-	C36C	-	-	TH2321	TH30C	-	-	-
C36C	-	302THA	-	C36B	-	-	TH2321	TH30C	-	-	-
C39A	-	-	-	-	-	-	-	EM1 TV6	-	ME6S EM1	-
C50B	8D2	-	CF1 CF7	-	-	-	-	SP13C	-	SP13B	-

TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI or EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
C50N	9D2	13VPA	-	-	-	-	VP1322	VP13C	-	VP13B	-
C70D	7D6	-	-	-	PTZ	-	Pen3520	Pen36C	-	PP35	-
C70E	7D6	-	-	-	PTZ	-	Pen3520	Pen36C	-	PP35	-
C80B	15D1	13PGA	-	-	VHTA	-	-	FC13C	-	VO13	-
CB215	-	220B 240B	-	K33A	HP2	-	PD220	PM2B	-	-	-
CB220	-	-	-	K33B	-	-	PD220A	PM2BA	B21	-	-
CBC1	-	-	-	-	-	-	-	TDD13	-	DDT13s	-
CBL1	-	-	-	-	-	-	-	-	-	DDPP39s	-
CC2	4D1	-	-	C30B	DA	-	HL1320	HL13c	-	HL13	-
CCH35	-	OM10	ECH3G	-	-	-	-	ECH33	-	-	-
CF1	8D2	13SPA	CF7	C50B	-	-	-	SP13A	-	SP13	-
CF2	-	-	-	-	-	-	-	SP13C	-	SP13B	-
CF7	8D2	13SPA	CF1	C50B	-	-	-	VP13A	-	HP13s	-
CF61	-	-	ECH41	-	-	-	-	SP13A	-	SP13	-
CF141	-	-	UCH41	-	-	-	-	ECH41	-	-	-
CK1	-	-	-	-	-	-	-	UCH41	-	-	-
CK502AX	-	-	DL71	-	-	-	-	FC13	-	-	-
CK505AX	-	-	DF70	-	-	-	-	DL71	-	-	-
CK506AX	-	-	DL72	-	-	-	-	DF70	-	-	-
CK512AX	-	-	DF66	-	-	-	-	DL72	-	-	-
CK522AX	-	-	-	-	-	-	-	DF66	-	-	-
CK523AX	-	-	DL66	-	-	-	-	-	-	-	6088
CK542DX	-	-	DL650	-	-	-	-	DL66	-	-	-
CK549DX	-	-	DF650	-	-	-	-	-	-	-	-
CK556AX	-	-	-	-	-	-	-	-	-	-	-
CK568AX	-	-	-	-	-	-	-	-	-	-	5676
CK569AX	-	-	-	-	-	-	-	-	-	-	5677
CK570AX	-	-	-	-	-	-	-	-	-	-	5678
CK571AX	-	-	-	-	-	-	-	-	-	-	5697
CK573AX	-	-	-	-	-	-	-	-	-	-	5886
CK605CX	-	-	-	-	-	-	-	-	-	-	6029
CK608BX	-	-	-	-	-	-	-	-	-	-	5702
CK608CX	-	-	-	-	-	-	-	-	-	-	5704
CK619CX	-	-	-	-	-	-	-	-	-	-	5703
CK1003	-	-	-	-	-	-	-	-	-	-	5744
CK1013	-	-	-	-	-	-	-	-	-	-	OZ44A
CK1027	-	-	-	-	-	-	-	-	-	-	5517
CL4	-	-	-	-	-	-	-	-	-	-	6174
CL33	-	332Pen	-	-	-	-	-	Pen26	-	PP24s	-
CY1	-	-	-	-	-	-	-	UR1	-	V20s	-
CY3	-	-	-	-	-	-	-	UR3	-	PV30s	-
CY1C	1D5	40SUA	-	C10B	RZ	-	U4020	UR1C	-	V20	-
CY31	-	OM1	-	-	-	-	U201	-	-	-	-
D1	-	-	-	-	-	-	-	T4D	-	-	-
D1C	-	-	-	-	-	-	-	-	-	-	-
D2C	-	-	-	-	-	-	-	-	-	-	957
D2M9	6AL5 6058	DD6	EAA91	-	DD6	D152 D77 QD77	6D2	EB91 M8079	D77 QA2404	DD6G	958A 6AL5 6058 5726 959
D3F	-	-	-	-	-	-	-	-	-	-	-
D4	HLA2	41MHL	-	A30D	-	MH4	AC/HL	244V 354V	MH4	HL4+	-
D41	DDA41	DDL4	-	A20B	-	-	V914	2D4A	-	DD4	-
D61	-	-	EAF41	-	-	-	-	EAF41	-	-	-
D63	6H6*	OM3	-	-	6H6*	-	-	EB34	-	-	6H6*
D77	6AL5 6058	DD6	EAA91 D2M9	-	DD6	D152 QD77	6D2	EB91 M8079	QA2404	DD6G	6AL5 5726 6058
D152	6AL5 6058	DD6	EAA91 D2M9	-	-	D77 QD77	6D2	EB91 M8079	D77 QA2404	DD6G	6AL5 5726 6058
DA	4D1	-	CC2	C30B	-	-	HL1320	HL13C	-	HL13	-
DA30	-	-	-	-	-	-	PA40	DO30	PX25A	-	-
DA90	-	-	-	-	-	-	1FD13	-	-	-	1A3
DAC32	1H5	1H5	-	1H5	-	HD14	-	-	HD14	-	1H5
DAF91	1S5	1S5	-	1S5	-	ZD17	1FD9	-	ZD17	-	1S5
DAF96	-	-	-	-	-	-	-	-	-	-	1AF5
DC70	-	-	-	-	-	-	-	-	-	-	1AH5 6375

* Series or parallel circuits.

TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI or EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
DC80	-	-	-	-	-	-	-	-	-	-	1E3
DCC90	-	-	-	-	-	-	-	-	-	-	3A5
DD4	-	DD4	-	A20B	-	D41	V914	2D4A	-	DD4	-
DD4D	-	-	-	-	-	-	-	2D4B	-	DD4D	-
DD6	6AL5 6058	-	EAA91 D2M9	-	-	D152 D77 QD77	6D2	EB91 M8079	D77 QA2404	DD6G	6AL5 5726 6058
DD6G	6AL5 6058	DD6	EAA91 D2M9	-	DD6	D152 D77 QD77	6D2	EB91 M8079	D77 QA2404	-	6AL5 5726 6058
DD13	10D1	-	-	C20C	-	-	-	2D13C	-	-	-
DD13s	-	-	-	-	-	-	-	2D13A	-	-	-
DD465	-	-	-	-	-	-	-	2D4	-	-	-
DD620	-	-	-	-	ZD	-	-	-	-	DD6	-
DDA41	-	DDL4	-	A20B	-	D41	V914	2D4A	D41	-	-
DDL4	DDA41	-	-	A20B	-	D41	V914	2D4A	D41	-	-
DDPP4B	-	42/OTDD	-	-	PT4D	DN41	AC/2- PenDD	-	DN41	-	-
DDPP4M	-	-	-	A27D	-	-	-	Pen4DD	-	-	-
DDPP6Bs	-	-	-	-	-	-	-	EBL1	-	-	-
DDPP39	-	-	-	-	-	-	PenDD- 4020	-	-	-	-
DDPP- 39M	-	-	-	-	-	-	-	Pen40DD	-	-	-
DDPP39s	-	-	-	-	-	-	-	CBL1	-	-	-
DDT	11A1 11A2	-	-	A23A	H4D	MHD4	AC,HLDD	TDD4	MHD4	DDT4	-
DDT2	-	-	-	-	-	-	-	TDD2A	-	-	-
DDT2A	-	-	-	-	-	-	-	-	HD21	-	-
DDT2B	-	210DDT	-	K23A K23B A23A	H2D	HD23	HL21,DD	TDD2 TDD2A	HD23	-	-
DDT4	11A1 11A2	DDT	-	-	H4D	MHD4	AC,HLDD	TDD4	MHD4	-	-
DDT6s	-	-	EBC3	-	-	-	-	EBC3	-	-	-
DDT13	11D3	13DHA	-	C23B	HAD	-	HLDD1320	TDD13C	-	-	-
DDT13s	-	-	CBC1	-	-	-	-	2D13A	-	DD13s	-
DF33	1N5	1N5	-	1N5	1N5	Z14	-	-	Z14	-	1N5
DF66	-	-	-	-	-	-	-	-	-	-	CK512AX
DF67	-	-	-	-	-	-	-	-	-	-	6008
DF70	-	-	-	-	-	-	-	-	-	-	CK505AX
DF91	1T4	1T4	-	1T4	1T4	W17	1F3	-	W17	-	1T4
DF92	1L4	-	-	-	-	-	1F2	-	-	-	1L4
DF96	-	-	-	-	-	-	-	-	-	-	1AF4
DF650	-	-	-	-	-	-	-	-	-	-	1AJ4
DF904	1U4	-	-	-	-	-	-	-	-	-	CK549DX
DH30	11D5	-	-	-	H5D	DH30	-	-	DH30	-	1U4
DH42	-	-	-	-	-	-	AC,HLDD	TDD4	-	DDT4	-
DH63	6Q7	-	-	-	-	-	-	-	-	6Q7	6Q7
DH73	6T7	-	-	-	-	-	-	-	-	-	6B6
DH76	12Q7	-	-	-	-	-	-	-	-	12Q7	6T7
DH77	6AT6 6066	-	EBC90 EBC91	-	-	-	-	EBC90 EBC91	-	-	6Q6
DH81	7B6	-	-	-	-	-	-	-	-	-	12Q7
DH142	-	-	UBC41	-	-	-	10LD3	UBC41	-	-	6AT6
DH147	-	OM4*	-	-	-	DL63	-	EBC33*	DL63	-	6AQ6
DH149	7C6	7C6	-	-	-	-	-	-	-	-	6AV6
DH150	-	62DDT	EBC41	-	-	-	6LD3	EBC41	-	-	6BT6
DK32	1A7	1A7	-	-	1A7	X14	-	-	X14	-	7B6
DK91	1R5	1R5	-	-	1R5	X17	1C1	-	X17	-	1A7
DK92	1AC6	1AC6	-	-	-	X18	1C2	-	X18	-	1R5
DK96	-	-	-	-	-	-	-	-	-	-	1AC6
DL33	3Q5	3Q5	-	3Q5	3Q5	N15	-	-	N15	-	1AB6
DL35	1C5	1C5	-	1C5	1C5	N16	-	-	N16	-	3Q5
DL36	-	-	-	-	-	N14	-	-	N14	-	1C5
DL63	-	OM4	-	-	-	DH147	-	EBC33	-	-	1Q5

* Series or parallel circuits.

TYPE	BRIMAR	COSSOR	EUPN.	EV. RDY.	FERRANTI	MARCONI or EMITRON	MAZDA	MULLARD	OSRAM	TUNGSRAM	U.S.A.
DL56	-	-	-	-	-	-	-	-	-	-	CK523AX
DL67	-	-	-	-	-	-	-	-	-	-	6007
DL70	-	-	-	-	-	-	-	-	-	-	6373
DL71	-	-	-	-	-	-	-	-	-	-	CK502AX
DL72	-	-	-	-	-	-	-	-	-	-	CK506AX
DL74M	12Q7	-	-	-	-	-	-	-	-	-	12Q7
DL82	7B6	-	-	-	-	-	-	-	-	-	7B6
DL91	1S4	1S4	-	1S4	1S4	-	-	-	-	-	1S4
DL92	3S4	3S4	-	3S4	3S4	N17	1P10	-	N17	-	3S4
DL93	-	3A4	-	-	-	-	-	-	-	-	3A4
DL94	3V4	3V4	-	-	-	N19	1P11	-	N19	-	3V4
DL95	3Q4	-	-	-	-	N18	-	-	N18	-	3Q4
DL96	3C4	-	-	-	-	-	-	-	-	-	3C4 3E5
DL145	-	-	-	-	-	-	10LD11	-	-	-	-
DL650	-	-	-	-	-	-	-	-	-	-	CK542DX
DM70	-	-	DM71	-	-	-	-	DM71	-	-	1M3
DM71	-	-	DM70	-	-	-	-	DM70	-	-	1M3
DN41	-	42,OTDD	-	-	PT4D	-	AC/2- PenDD	-	-	DDPP4B	-
DN143	-	-	-	-	-	-	-	EBL21	-	-	-
DO24	-	-	-	-	-	PX25	PP5,400	-	PX25	P27/500	-
DO26	-	-	-	-	-	PX25	PP5,400	-	PX25	P27/500	-
DO30	-	-	-	-	-	DA30	PA40	-	DA30	-	-
DP61	-	-	EF95 PMO5	-	-	-	-	EF95 M8100	-	-	6AK5 5591
DS	-	-	-	-	-	-	-	-	H30	-	-
DW2	-	506BU	1821	-	-	U10	-	-	U10	RV120/350	-
DW3	-	-	-	-	-	U9	-	-	U9	RV120/350	-
DW4	-	-	-	-	-	-	-	-	-	RV120,500	-
DW4 350	-	-	-	-	-	-	-	-	-	RV120/350	-
DW4 500	-	-	1561	-	R4A	U14	-	-	U14	RV120,500	-
DY30	-	-	-	-	-	-	-	-	U41	-	1B3 8016
DY70	-	-	-	-	-	-	-	-	-	-	SN956B
DY80	-	-	-	-	-	-	-	-	-	-	1X2
E1C	-	-	-	-	-	HA2	-	-	HA2	-	955 1650
E1F	-	-	-	-	-	ZA2	-	-	ZA2	-	5731
E2F	-	-	-	-	-	-	-	-	-	-	954
E406N	-	4XP	-	S30C	LP4	PX4	PP3,250	ACO44 ACO54 ACO64 ACO84	PX4	P12/250	956
E80CC	-	-	-	-	-	-	-	-	-	-	€085
E30F	-	-	-	-	-	-	-	-	-	-	6084
E80L	-	-	-	-	-	-	-	-	-	-	6227
E80T	-	-	-	-	-	-	-	-	-	-	6218
E83F	-	-	18043	-	-	-	-	-	-	-	-
E90CC	-	-	-	-	-	-	-	-	-	-	5920
EA50	-	SD61	-	-	-	-	6D1	T6D	-	-	-
EA71	-	-	-	-	-	-	-	EA76	-	-	5647
EA76	-	-	-	-	-	-	-	EA71	-	-	5647
EAA91	6AL5 6058	DD6	D2M9	-	DD6	D152 D77 QD77	6D2	EB91 M8079	D77 QA2404	DD6G	6AL5 5726 6058 6AK8 6T8
EABC80	-	-	-	-	-	-	-	-	-	-	-
EAF41	-	-	D61	-	-	WD150	-	-	-	-	-
EAF42	-	-	-	-	-	D63	-	-	-	-	-
EB34	6H6	OM3*	-	-	-	D152	-	-	D63	6H6	6H6
EB91	6AL5 6058	DD6	D2M9 EAA91	-	DD6	D152 D77 QD77	6D2	M8079	D77 QA2404	DD6G	6AL5 5726 6058
EBC3	-	-	-	-	-	-	-	-	DDT6s	-	-
EBC33	-	OM4	-	-	-	DH147 DL63	-	-	DL63	-	1639
EBC41	-	62DDT	-	-	-	DH150	6LD3	-	-	-	-
EBC80	-	-	-	-	-	-	-	-	-	-	6BD7

* Series or parallel circuits.