

- A** Wiener Radio Werke "WIRAG", Austria
- B** Mullard, Blackburn, UK
- C** Handon Works, Alberton, Australia
- D** Valvo, Hamburg, Germany
- d** Nederlandsche Instituut voor Fysisch Onderzoek, Holland
- E** Hyperlec Brive (Correza), Spain
- F** La Radiotechnique, Suresnes, France
- ƒ** Marconi, Osram Valve Co., UK
- f** Std. Telephones and Cables Ltd., UK (later Thorn)
(East German origin after 1 Jan. 1970)
- G** Mullard, Fleetwood, UK
(Loewe Opta after 22 Feb. 1954)
- I** Thorn-AEI Radio Valve Co., UK (Ediswan)
(Mullard supply)
- J** Mullard, Tottenham, UK (formerly Tungfram)
- L** M.B.L.E. (Mazda), Bruxelles, Belgium
- N** Matsushita Electronic Corp., Takatsuki, Japan
(G.E.C., Mullard supply)
- n** Matsushita Electronic Corp., Kyoto, Japan
- P** Papesa, Buenos Aires, Argentina
- R** Mullard Radio Valve Co., Mitcham, UK
- r** Philips Electronics Industries Ltd., Ontario, Canada
- S** Lamapra "Z", Barcelona, Spain
- T** Philips, Eindhoven, Holland
- t** T.I.C. Philips Export Corp., New York, USA
- ›** C.I.F.T.E., Courbevoie, France
- U** Thorn-AEI Radio Valve Co. Ltd., UK (formerly B.T.H.)
- V** Bharat Electronics (private) Ltd., Bangalore, India
- X** Philips, Sittard, UK
- x** Philips, Chilena de Productos Electronicos, Chile
- Y** Philips, Sittard, UK
- Z** Philips, Morza, Monaco
- 1** Philips, Eindhoven, Holland
- 2** Philips, Eindhoven, Holland
- 3** Ferranti, UK (Mullard supply)
- 3** Philips, Eindhoven, volgroepen I and II, Holland
(Fivre, Italy after 1 Jan. 1970)
- ⊗** Marconi, Chelmsford, UK (Mullard supply)
- 4** Venolande S.A., Venezuela
- ⚡** English Electric Valve Co., UK (Mullard supply)
- 5** Toshiba, Tokyo, Japan
- ⊕** Chinema Television (Mullard supply)
- 6** Philips, Eindhoven (Radio valve lab, receiving valve
technology group, Russian origin)
- Ⓞ** Mullard, Fleetwood, UK (after 16 Nov. 1954)
- 7** Philips, Eindhoven (Radio valve lab, physics group)
Hitachi, Japan
- ⚡** Electrical and Musical Industries (Mullard supply)
- 8** Philips, Eindhoven (Radio valve lab, glass group)
- 9** Philips, Heerlen, Holland (Radio valve lab, receiving valve
technology group)
- +** Philips, Sittard, UK
- =** La Radiotechnique, Clichy (Neutron), France
- *** Amperex Electronic Corp., New York
- Δ** Philips, Copenhagen, Denmark
- ◁** Philips Electrical Lamps Inc., Philippines
- >** Visseaux, France
(Polish origin after 1 Jan. 1970)
- ±** La Radiotechnique, Chartres, France
- ≡** Electronic Tubes Ltd., (Mullard supply)
(IPERPESA, Peru after 1 Jan. 1970)
- ≠** Siemens & Halske, Munich, Germany
- ↙** Mullard Radio Valve Co. Ltd., Croydon (Waddon), UK
- ▣** Mullard, Whyteleafe, UK
- △** Philips, Heerlen, Holland
- ↻** Mullard, Salfords, UK
- ψ** IBRAPE, Sao Paulo, Brasil
- Purchased from third parties by Mullard
- ⊕** Mullard, Whyteleafe, Kenley, UK
- ⌋** Tungfram, UK
- ⊥** Telefunken Ulm and Telefunken Berlin, Germany
- Loewe Opta for Valvo, Hamburg, Germany
- ⤴** Elektrinski Industrija, Nis, Yugoslavia
- :** Philips, Eindhoven, Radiation detector development

Philips / Amperex / Mullard / Valvo two digit codes								
Code	Type	Comment	Code	Type	Comment	Code	Type	Comment
AC	AW43-89		BX	XL36		C5	E288CC	
AD	EC88		BY	MX153			8223	
AE	EL500		BZ	YL1000		C6	ECC808	
	6GB5		Bf	CV4049		C7	EC900	
AF	6EU7		B1	M2PE		C8	PCF801	
AG	CV4035		B2	M3DV			8GJ7	
AH	PY33		B3	M4PCF		C9	XCF802	
AI	DL97		B4	M7EF		C+	LCF802	
AJ	ECC230		B5	95400			6LX8	
	6080		B6	4-OA31				
AL	AX50		B7	M8ECC.1		DB	VX8252	
AM	PC97		B8	M13PCC		DC	LCF86	
AN	PL1607		B9	VX8250			5HG8	
AS	LC97		B+	3GK5		DD	38A6	
AT	LF183					DE	6BZ6	
AU	LF184		CA	35C3		DF	6DE6	
AW	6GK5		CB	12CU5		DH	12AL5	
AX	6GK6		CC	6CU5		DI	EL36	
Ad	85A1		CD	4GK5			6CM5	
Af	CV4011		CE	CV1377		DJ	PCC88	
	M8196		CF	3CS6			7DJ8	
A0	347		CG	OKL1p		DL	PY300	
A3	E88C		CH	ECF802		DM	ECF801	
	8255			6JW8			6GJ7	
A4	EC800		CI	PL84	min	DP	PC900	
A5	XL500			15CW5			4HA5	
A6	EC1000		CJ	VX8189		DR	QV10-P8	
A7	PCF802		CK	6AQ5A		DS	7453	
A8	6CQ8		CL	12AU6A		DT	3BE6	
A9	PY83		CM	12C5		DU	3DE6	
			CN	PCF806		DV	75C1	
BA	XCF86		CP	PEN40DD		DZ	EN33	
BB	6DK6		CR	CZ30		Dd	PCF84	
BC	E88C		CS	6-OA31			also PB-1	
BD	ECH800		CT	8-OA31		Df	6201	
BE	12T8		CU	PCC34		Dk	PF86	
BG	E80CF		CW	18045		Dm	402	
	7643		CZ	EC95		Dr	3AL5	
BH	7475		Cd	6463		Dt	3CB6	
BI	PEN4DD			CV5304		D2	3BZ6	
BJ	CV4029	also	Cf	VX8205		D+	LL500	
	5902	YL1000	Ck	EC86			18GB5	
	M8200		Cm	ECC88	Bee			
BN	E55L	M5EL	Cr	E184CC		EB	80	an
BP	E55L	M6EL	Ct	ECC186			80	dev
	8233			7316		EC	DL93	
BR	5639		C0	62BTA			3A4	
BS	2GK5		C2	18046		ED	DL94	

BT	M2EL		C3	E81L			3V4	
	38EL			6686			CV2983	
BU	XL84		C4	V1ELL		EE	DW2	
BW	XCC189			ELL80		EF	1561	
Code	Type	Comment	Code	Type	Comment	Code	Type	Comment
EH	1805		FV	PL3C23		G3	EBF89	
EI	VP4B		FW	25Z5			6DC8	
EJ	VX8179		FX	25C5		G4	EA52	
EK	EB41		FZ	ABC1	dev	G5	EA52	
EL	EC37		Fd	ABL1	dev		6923	
EM	ECC31		Ff	7AU7		G6	6D4	
EN	ECC32		Fk	EA70		G+	V2ECC	
EP	EF37A		Fm	AD1				
ER	EF91		Fr	AF2				
	6AM6		Ft	AF3		HA	DF33	
ES	1883		F0	AF7		HB	AZ12	
ET	EL35		F1	43	dev	HC	AZ31	
EU	EZ35		F2	AK2		HD	AZ41	
EV	OA3		F4	AL2			95104	
	CV3798		F5	AL4		HE	41	
EW	FW4-500		F6	DF91		HF	DK33	
EX	PM24M			1T4		HG	VX8141	dev
EY	PF183		F7	50L6GT		HH	CBL1	
EZ	4614		F8	AZ1		HI	XC95	
Ed	SP13		F9	7B		HJ	EF97	
Ef	VX8194		F+	AZ4			6ES6	
Ek	SP13C					HK	CBL31	
Em	AZ11		GA	ECC88		HL	ECH41	
Er	1A7GT		GB	UM84		HM	UM5	
Et	FC13		GC	VX8167		HN	UL43	
E0	4633		GD	QV9-P10		HP	UCH41	
E1	DAC32		GE	EH90		HR	CL4	old
E2	4618			6CS6		HS	GZ40	
E3	UY21		GF	CV131+		HT	CL33	
E4	4654		GG	VX8116		HU	CY1	dev
E5	AL1		GH	CV133+		HV	CBC1	dev
E6	5Z4		GI	PC95		HW	CY2	EL521
E8	6A8G			4ER5			also	
E9	6J7		GJ	EL81F		HX	CY31	
E+	47673		GK	CV136+	also GL	HY	60FX5	(M)
			GM	EM81		HZ	CK1	
FA	4682			6DA5		Hd	ECL80	
FB	4683		GN	CV138+			6AB8	
FC	DL35		GP	CV140+		Hf	E83CC	
	1C5GT	C tech	GR	CV417+			6681	
FD	4688	C tech	GS	CV465+		Hk	EF92	
FE	4689		GT	CV466+			6CQ6	
FF	6A8		GU	CV467+		Hm	EL38	
FG	VX8114		GW	CV468+		Hr	DF21	
FH	6K7		GX	CV469+		Ht	DF22	dev
FI	60EH5		GZ	CV2129+		H0	5ECC	

FJ	HCH80	etc	Gf	ECC82		H2	DF70	
FK	4699.5			12AU7		H3	CF50	
FL	6J8G		Gk	UCH5		H4	DK21	
FM	6F6G		Gm	VX8140		H5	EL44	
FN	6F6		Gr	EC52		H6	DK40	
FP	6V6G		G0	EBL31		H7	DL21	
FR	6V6GT		G1	PCF82		H8	Z701U	
FU	18040		G2	EC57		H9	DL40	
Code	Type	Comment	Code	Type	Comment	Code	Type	Comment
H+	DL41		JF	CBL6		K3	EBF11	
			JG	EA50		K4	EBF32	
IA	ORP20PW			2B35		K5	EBF35	
IB	ORP20		JH	ECF1		K6	EBL1	
IC	ECF83		JP	EL30		K7	EBL21	
ID	E182CC		JU	LCF80		K8	EBF840	
	7119	also 5876		6LN8		K9	EC40	
IF	PC93		JZ	TH2		K+	EC41	
IG	6205		Jd	UCC85				
	CV2432		Jf	ECF806		LA	DK32	
IH	185BT		J7	4069			1A7GT	
II	EL360			ME1404		LB	EC81	
IJ	VX8240	also used	J8	3DT6			6R4	
	for Hamburg PM84 till 3.8.58		J9	V3ECH		LC	ECC40	
IK	PZ36		J+	LCL84		LD	UY11	
IL	6286			10DX8		LE	ECH3	
IM	27SU					LF	ECH4	
IN	ORP90		KA	DL71		LG	VX8206	
IP	PCC189		KB	DLL21	also DLL31	LH	4671	
IR	TY86F		KC	DF35		LI	UBF89	
IS	GZ37		KD	E1C			19FL8	
	CV378		KE	EL34	old	LK	EFF51	
IT	6BJ8		KE2	EL34	new	LL	ECH11	
IU	VX8227		KF	DC89		LM	ECH21	
IV	E180CC		KH	E424N		LN	ECH33	
	7062			A4110		LP	DA90	
IW	E181CC		KI	M8144			1A3	
IX	ECC189			CV4033		LR	ECH35	Mullard
IY	PM84	NOTE: IJ	KJ	EF98		LS	ECH41	
IZ	EF6N			6ET6		LT	ECH80	
Id	95398		KK	DAC21			6AN7	
Im	PF83		KL	E443H		LU	ECL11	
It	PY180		KM	E447		LV	TDD4	
I0	ORP11		KN	EC81		LW	DC79	
I1	6211		KP	EA40		LX	EF93	
I2	ORP10		KS	EA51			6BA6	
I3	PC92		KT	EAF41		LY	EEP1	
I4	EF183		KU	EB34		LZ	EF6	
I5	EY180		KV	CBC1	(M)	Ld	EW60	
I6	ECC83		KW	EB40		Lf	ECL83	
	12AX7		KX	EY51		Lk	EZ2	
I7	XCF80			6X2		Lm	EL91	

I8	XCH81		KY	EBC3			6AM5	
I9	XF80		KZ	EBC33		Lr	EZ4	
I+	7025		Kd	EM1		Lt	EF80	
			Kf	PL83	Bee		6BX6	
JA	HCC85		Kk	EM4		L0	EF80	
JB	EF184		Kl	EQ80		L1	EF93	
	6EJ6			6BE7		L2	E1F	
JC	ORP31		Km	EM34		L3	DF65	
JD	PL500			6CD7		L4	EF11	
	27GB5		K0	EBF2		L5	EF12	
JE	PC88		K1	PCC809		L6	EF22	
	4DL4		K2	EZ41		L7	EF36	
Code	Type	Comment	Code	Type	Comment	Code	Type	Comment
L8	EF39		NA	PL83	en	PF	UF10	
L9	EF40		NB	KF3		PG	6007	
	also	CV2031	NC	KK2		PH	Aa	
L+	EF41		ND	KL4		PK	Ba	
	6CJ5		NE	AZ50		PL	Bas	
			NF	UAF41		PM	Ca	
MA	EF42		NG	5651		PN	Cas	
MB	EF50		NH	UAF42		PP	Ce	
MC	EF51			12S7		PR	Ce	
MD	EF100		NJ	ECH83		PS	Ed	
ME	DL65			6DS8		PT	E2c	
MF	EFM1		NK	UL41		PU	E2d	
MG	VX8207			45A5		PV	EY88	
MH	EFM11		NL	UBF11			6AL3	
MI	EL86		NM	UBL1		PW	C3b	
	6CW5		NN	UCH41		PX	C3e	
MJ	EBF83		NP	UBL21		PY	5Y3GT	
	6DR5		NR	UCH4		PZ	E452T	
MK	DL21S			also D3A		Pd	EL6	400V
ML	EFP20		NS	UCH11		Pk	EL12	325V
MM	EFP60		NT	UCH21		Pm	EL12	375V
MN	EK2		NU	UCH42		Pr	EM4	100V
MP	EK32			14K7		Pt	UM4	165V
MR	EL2		NV	TDD13C		P0	UM4	200V
MS	EL3N		NW	UAF100		P1	UL44	
MT	EBF80	en	NX	UCH100		P2	EL43	
MU	UB41		NY	UCL11		P3	EBC41	
MV	TDD13		NZ	UF9			6CV7	
MW	EL6		Nd	UF9		P5	EL43	
MX	EL11		Nk	PY80	min	P6	UL44	en
MY	EL12		Nm	UF41		P7	4654K	
MZ	EL20			12AC5		P8	UBL3	
Md	EL81		Nr	UF100		P9	UCH5	
	6CJ6		Nt	UY2		P+	ABC1	
Mf	PCF82		N0	UL100				
Mk	PL38		N1	UM4		RA	AF2	
Mm	GZ30	new	N2	UY1N		RB	AL5	
Mr	KB2		N3	UF21		RC	EL5	

Mt	KBC1		N4	EL41	en	RD	VCL11	
M0	EL32		N5	UY41		RE	VY2	
M1	EL33		N6	UY100		RF	X13	
M2	EBC80		N7	UY42		RG	M1EL	
	6BD7		N8	VCL11			EL131	
M3	EL39		N9	CF2		RH	UF42	
M4	EL41		N+	VY2		RI	E130L	
	6CK5						7534	
M5	EL42		PA	DL92		RK	UBC41	
	95105			3S4			14L7	
M6	EL42		PB	DL72		RL	C443	
M7	EL8		PC	ECH42		RM	DAF91	
M8	EL51			6CU7			1S5	
M9	EL60		PD	EL61		RN	DF92	
M+	EL80	en	PE	PY80			1L4	
				19X3				
Code	Type	Comment	Code	Type	Comment	Code	Type	Comment
RP	DK91		SR	EZ40	old	Tm	XL86	
	1R5		SS	4060		Tr	TD03-10B	
RR	EAF42		ST	EF41	Bee	T0	3AT6	
	6CT7		SU	UBF80	en	T1	PL82	
RS	EAF80		SV	18300			16A5	
RT	EL21		SW	18042	en	T2	KK32	Mullard
RU	ECC35		SX	PL81		T3	DF74	
RV	EF55			21A6		T4	EL83	en
RW	ECC91		SY	EL34		T7	DF67	
	6J6			6CA7		T8	DL67	
RX	CCH35		SZ	EF80		T9	E83F	en
RY	EC91		Sd	UCC40		T+	UCH81	min
	6AQ4		Sf	Z502S				
RZ	EF54		Sk	UF6		UA	UL41	Bee
Rd	EF55		Sm	EC56		UB	L413S	
Rf	VX8196C		Sr	DCC90		UD	A4110	
	6AS6W			3A5		UE	DL96	
Rk	EL22		S0	EL81			3C4	
Rm	EZ22		S1	CF7		UF	DL67/5	
Rr	FW4-800		S2	EAF801		UH	EF43	
R0	CY32		S3	L416D		UI	5718	
R1	DL33		S4	506			CV3930	
	3Q5GT		S5	EY50			also	EL802
R2	EAC91		S6	4684		UJ	37EL	
	M8097		S7	4688		UK	UF43	
	CV4059		S8	CF3		UL	3AV6	
R3	EB91		S9	Cf		UM	6BQ6GBT	
R4	EC53		S+	Bh			6CU6	
R5	DL70					UN	LC900	
R6	EL37		TA	UY3			3HA5	
R7	GZ32		TB	1832		UP	EF81	
	5AQ4		TC	UBC41	Bee	US	DL67/65	
R8	EL44		TD	UF5		UT	UQ80	
R9	E446	(O)	TE	DF96		UU	EAF42	Bee

R+	CV273			1AJ4		UV	AZ32	
			TG	XCF801		UW	12SK7GT	
SA	EC80	en	TH	DAF96		UX	DK96	
SB	EZ80			1AH5			1AB6	
SC	UL2		TJ	LCF801		UZ	E447	(E)
SD	DAF40			5GJ7		Ud	12SQ7GT	
SE	EL45		TK	UCH42	Bee	Uf	QQE03/12	Bee
SF	AZ41	Bee	TM	UY42	Bee	Uk	12SA6GT	
SG	5V4G		TP	UAF42	Bee	Um	E90CC	
SH	ECH42	Bee	TR	UCH81			5920	
SI	EL95			19D8			CV5214	
	6DL5		TT	AY1		Ur	LC95	
SJ	CV4109		TU	EL50			3ER5	
SK	DAF41		TV	AZ2		Ut	QQE02/5	Bee
	with add F, DAF40		TY	Z805U		U0	DY30	
SL	EL41	Bee	TZ	UF41	Bee		1B3GT	
SM	UY4		Td	EY80	min	U1	XC900	
SN	EBC41	Bee	Tf	XF85		U2	AC2	
SP	DC80		Tk	ECC81		U3	EL520	
	6DC			12AT7		U4	DF67/5	
Code	Type	Comment	Code	Type	Comment	Code	Type	Comment
U5	E446	(E)	WH	9U8		XN	95106	
U6	6SA7GT			also EL803S		XR	PY800A	
U7	6SK7GT		WI	5840		XT	E235L	
U8	6SQ7GT		WJ	5836		XV	DW4-350	
U9	35Z5GT		WK	E80CC	Bee	Xf	EL34	bant
U+	UY41	Bee	WL	CV4084		Xr	E84L	
			WM	E80F	Bee		7320	
VA	18042		WN	25L6GT		Xt	PL2D21	
	6086		WP	E80L	Bee	X0	XF184	
VB	E80CC		WR	UM34		X1	XF183	
	6085		WS	ECL86		X2	ECC186	(L)
VC	E80F			6GW8		X3	5672	
	6084			also CV4011			DL620	
VD	E80L		WU	C3JQA		X4	EL300	
	6227		WV	DW4-350		X5	PL300	
VE	E83F		WW	18042	Bee	X6	6CY5	
	6689		WX	EL83		X7	EL502	
VF	ECC81		Wd	EF94		X9	E9Z	dev
	12AT7			6AU6		X+	EL504	
VG	E81CC		WF	E83F	Bee		6GB5A	
	6201		Wk	CV4098				
VH	EC92	new	Wm	PY82		YC	DM70	
VI	UC92	new		19Y3			1M3	
VJ	ECC89			Wr			DM71	
	6CF7		Wr	EBF81	min	YD	ECH81	
VK	5842		Wt	DK92			6AJ8	
	417A			1AC6		YE	EC56	
VL	E94CC		W0	EBF81		YF	EF80	en
VM	ORP92		W1	PCL86		YG	ECF200	
VN	PC96			14GW8			6X9	

VP	95124		W2	XR1-1600A		YH	ECL80	en
VR	E188CC		W5	E182F		YI	DF60	
	7308		W6	ECC2000			5878	
VS	EM84		W7	VX8195C		YJ	CV1868	
	6FG6		W8	18046	Bee	YK	ECC81	
VT	XCC82		W9	PFL200			12AT7	
	7AU7					YL	PL81	en
VU	PCF86		XA	401		YM	PL82	en
VV	PL136		XB	XY88		YN	PY80	en
	35FV5			16AQ3		YP	PY82	
VW	EL183		XC	CV468	Ultra	YR	ECH200	
VX	PCL85	VALVO	XD	CV4086			6V9	
	18GV8	PCL805	XE	M6EF		YS	E186F	
VY	UY89		XF	12DJ8			7737	
VZ	6AN7A		XG	GZ41		YT	XCL84	
			XH	PCH200		YV	DY87	
WA	PM22A			9V9		YX	18502	
WB	6BD7	min	XI	5899		YY	EZ90	
WC	6BH5	min		CV477		YZ	EBC90	
WD	6M5	min	XJ	5644			6AT6	
	also EF800		XK	PCF200		Yd	EK90	
WE	PY32	bant		8X9		Ym	DL22N	
WF	ORP50		XL	PCF201		Yr	E81L	Bee
WG	M3EFP			8U9				
Code	Type	Comment	Code	Type	Comment	Code	Type	Comment
Yt	EC97		Z3	LCLF201		d4	M13PL	
	6FY5			5U9		d5	M6DY	
Y0	PY81		Z4	XCF200		d6	GY86	
	17Z3		Z5	XCF201		d7	PY81	en
Y2	EC81		Z6	PY801		d8	UABC80	en
Y3	EF85		Z7	ZP1080		d9	UCH81	en
	6BY7		Z8	ZP1081			also EL803	
Y4.0	EABC80	min	Z9	4067		d+	UF80	en
Y4.1	EABC80	en	Z+	6111			also YL1080	
Y5	VY1						YL1081	
Y6	6BU8		dA	6112				
Y7	EFL200		dB	7895		fA	LA4-250	
	6Y9		dC	PL6574		fB	LB4-2	
Y8	ECH81	en	dD	DY86	DY87	fC	MX124/01	
Y9	EC80			1S2	1S2A	fD	MX133	
	6Q4		dE	6CG7		fE	EL505	
Y+	PL57		dF	LCH200			6GK6	
				5V9		fG	TD1-100A	
ZA	6DT6		dG	12X4		fJ	N22LL	
ZB	12FK6		dH	LL86			19KF6	
ZC	UL41	Bee		10CW5		fK	ECL82	Bee
	Ag plated pins		dJ	PCL84			also EF802	
ZD	12AD6			15DQ8		fL	EL83	Bee
ZE	E80T		dK	LL521			also ECC801S	
	6218		dL	GY501		fM	PL84	Bee
ZF	PL81B			3BH2		fN	UCL82	Bee

ZG	HL90		dM	XL521		fP	UF86	
	12AQ5		dN	LCL85		fR	QQE02/05	Bee
ZH	ECL85			10GV8			QQV02-6	
	6GV8		dP	CV287		fS	N22PL	
ZI	EF71	rel	dR	YL1220		fT	N22XL	
ZJ	CV3986		dS	6AU6WB		fU	M6ECC	
	6021		dU	PL435		fV	LSD2	
ZK	6AD6		dV	LCC189	also	fW	Z303C	
ZL	6BL6			5ES8	PL5822Du	fX	E35CC	
ZM	6J8		dW	PL522		fY	EM84	
ZN	12BL6		dX	EF5000		fZ	EC71	
ZP	12J8		dY	CV4108		fd	EF732	
ZX	LFL200		dZ	V6ECC		ff	CV2281	
	11Y9		dd	PD500		fk	EF731	
ZV	VX8222C			9ED4		fm	5609	
ZY	LY88		df	PY500		fr	5U8	
ZZ	4068			42EC4		ft	12BY7A	
Zd	5719		dk	PL505		f0	LY81	
Zf	EF40	Bee		40GK6			11R3	
Zk	5749		dm	V7PCL		f1	5609V	
	6BA6W		dr	CV2901		f2	VX8234	
Zm	6005		dt	LCL86		f3	GZ34	bant
	6AQ5W		d0	M8EC			CV1377	
Zr	6080WA		d1	EA53		f4	ECL84	
Zt	ECF201		d2	EL136			6DX8	
	6U9			6FV5		f5	M7EC	
Z2	LCF200		d3	E810F			EC98	
	5X9			7788				
Code	Type	Comment	Code	Type	Comment	Code	Type	Comment
f7	EY500		mH	12AU7S		rU	HF93	
	6EC4		ml	CV4039			12BA6	
f8	24DF			M8096		rV	E181CC	Bee
f9	ECC83	low microf.	mJ	EF89	Bee	rW	EL85	
	also CV4110		mK	AB2	0		6BN5	
f+	m10PL		mN	GZ34		rX	EL84	min
			mP	UF85	min	rY	4699N	
kA	UF85		mR	UCH81	en	rZ	6BK4	
	also CV4111		mS	EF80	Bee	rd	EM85	
kB	EZ80	en new	mT	UABC80	en	rk	XL505	
kC	EZ80		mU	EL83		rm	LL505	
	6V4			6CK6		rr	CV2031	
kD	EZ40		mV	CV1672		rt	PCC84	
	6BT4		mW	PL83			7AN7	
	CV3891			14A6		r0	4646	
kE	GZ40			also CV359		r1	DF64	
kG	UM81		mX	E82CC		r2	DL64	
kl	EM87		mY	G5S6		r3	1AX2	
	6HU6		md	UF80		r4	5814A	
kM	EL84		mk	UF85		r5	12AT7WB	
	6BQ5		mm	EF85	en	r7	PCF80	
kN	DY51		mr	E280F			9A8	

	1BG2		mt	EZ40	Bee new	r8	EM80	
kP	E3LL	dev	m0	EZ80	Bee	r9	6SN7GT	
kR	ECF86		m1	PY80		r+	ED500	
	6HG8		m2	EY80				
kU	HN309			6U3		tA	N23PL	
kV	EY87		m3	PY83	Bee	tB	EL503	
kW	1S4		m4	EABC80		tC	UY85	
kZ	5R4GYS			6AK8		tD	EY86	6S2
kd	ECH84		m5	E283CC			EY87	6S2A
	6JX8		m6	ECH81	Bee	tE	EF86	Bee
kk	EAM86		m7	UCH81	Bee	tF	E99F	
	6GX8		m8	EC8010			7694	
km	XCL86		m9	ECC84		tI	VX8163	
kr	DF61N		m+	ECC809		tJ	PL82	Bee
kt	M4ECC					tK	4694	
k0	XF86		rA	EF804S		tL	M5DY	
	also N7ELL		rB	95107		tM	PC86	
k1	TS65		rC	DC80			4CM4	
k3	D12L		rD	PABC80		tN	ECC86	
k4	D20F			9AK8		tP	UCC85	
k5	XCL85		rE	UABC80		tR	EF89	
k6	ECC82		rF	EF805S			6DA6	
k7	XC97		rG	K81A		tS	PCL81	
k8	CV4517		rH	QQE03/12	Bee	tT	M11EL	
k9	PY800		rl	ME1403			EL5070	
			rJ	UF89	Bee	tU	ECC85	
mA	PABC80	en	rN	DY86		tV	GZ34	
mC	ECC83			DY87		tW	4373	
mD	6AM6S		rS	GZ33	Eindhofen	tX	18046	en
mE	CV302	not finished		GZ34	Eindhofen	tY	EBC81	Bee
mF	CV303	not finished	rT	E180F		tZ	PCC85	
mG	UCL83			6688			9AQ8	
Code	Type	Comment	Code	Type	Comment	Code	Type	Comment
td	6A8GT		0+	UBC81		2P	LSD3	
tf	LA4-2					2R	LSD3A	
	VX8168		1C	04DL	dev	2S	LSD5	
tm	EF804		1D	CV4011		2T	LSD7	
tr	EL81	Bee		also 03DF	dev	2U	LSD8	
tt	PL81	Bee	1E	DF62		2V	XCL82	
t1	PL508		1F	DAF92		2W	LSD24	
t2	PL504			1U5		2Y	ME1401	
t3	N22EL			CV3912			4065	
t4	V7PL		1G	UCL82		2Z	ME1402	
	PL802			50BM8			4066	
t5	V10PL		1J	CV4009		2d	GY802	
t6	UL84		1V	PL81F		2f	EL86	Bee
t7	EL508		1W	DL69		2k	PCF810	
	6KW6		1Y	AN1		2m	3A3	
t8	6BK4A		1f	EBF82		2r	PL521	
t9	Z500T		1k	EL821		2t	5837A	
t+	Z501T			6CH6		23	MX108	

			1m	CV2507		24	MX118	
0B	LY500		1r	DC70		25	MX119	
0C	PL5822		1t	DF66		27	11AF9	
0D	ECC180		10	DF72		28	PCL83	
	6CQ7A		11	DL66		29	XY500	
0E	PL57K		12	DL68		2+	XL508	
0F	YL1080		13	DL95				
	YL1081			3Q4		3B	TDD3-5	
0G	ECL82		14	DL73		3E	Z300T	
	6BM8		15	DL75		3F	Z800U	
0H	EBC81		16	DL98		3G	E82M	
	6BD7A			3B4		3H	Z801U	
0I	EY7-	rel	17	DY80		3I	UF81	
0J	CV4005		18	EA76		3J	CV4019	
0K	12SN7GT			6489		3K	Z900T	
0N	18015		19	EC70		3L	E91H	
0P	PCC89		1+	EC90			6687	
	7EF7			6C4		3M	6C86	
0S	KT66					3N	EL90	
0Z	EC83.1		2A	EF70			6AQ5	
0d	LL504		2B	EF71		3P	85A2	
0f	DM160		2C	EF72		3V	Z70U	
	6977		2D	EF73		3U	EBC91	
0k	UM80		2E	EF95			6AV6	
	19BR5			6AK5		3X	150C2	
0m	UF89		2F	EL70		3Y	HBC90	
0r	XL504		2G	EY802			12AT6	
0t	N55RPY		2H	EN32		3Z	HF94	
02	EY81			PL6574			12AU6	
	6R3		2I	UABC80		3d	HBC91	
06	N54RPY		2J	CV4012			12AV6	
07	UY85	Bee	2K	EN70		3f	PCL82	Bee
08	PL95			5643		3k	HK90	
09	E95F		2L	EY70			12BE6	
	5454		2M	EY91		3m	DC90	
	6AK5W		2N	DAF70				
Code	Type	Comment	Code	Type	Comment	Code	Type	Comment
3r	HY90		5F	CV1863		6T	E180CC	Bee
	35W4		5H	5Z4GT		6U	Z50T	
3t	HL92			CV2748		6W	M8097	
	50C5		5I	50EH5		6X	CV2742	
30	E92CC		5K	ECC33		6Y	CV4015	
31	EC92		5L	ECC34			M8161	
32	UC92		5M	EF37		6Z	CV4031	
	9AB4		5N	EL33A			M8081	
33	EAA91		5R	EL820		6f	EZ36	
	EB91		5S	EY84			11EZ	
	6AL5			6374		6r	EL811	
34	DK93		5T	IW4-350		60	VX8124	
35	K50A		5U	ME1400		62	VX8182	
38	6BZ6		5V	CV4050		63	VX8136C	

39	ECF80		5W	PEN-A4		64	VX8137C	
	6BL8		5X	PEN36C			CV4004	
3+	UCC84		5Y	PL33		65	VX8162C	
			5Z	PL820		66	EL85	min
4A	EF74		5d	PY31		67	4383	
4E	CV521		5f	UL84	Bee	68	55395	
4F	LL508		5k	PZ30		69	E91AA	
4G	EF83		5m	UCF80			5726	
4I	UCH80		5r	UL46			6AL5	
4J	CV5029		5t	UR1C		6+	EL180	
4M	MX112		51	18512				
4N	MX115		52	UBF80		7B	6SJ7GT	
4P	CV2246			17C8		7D	R199899	
4R	EBF80		53	HCH83	en	7E	PCL82	
4S	EY82		54	01DAF			16A8	
	6N3		55	75B1		7F	DF97	
4U	EC93		56	95A1			1AN5	
4W	HL94		57	DM71		7H	DC96	
	30A5			1N3		7J	M8163	
4X	ECF82			also EL802		7L	E88CC	
	6U8		59	CV4010			6922	
	CV5065			M8100		7M	17ECC	dev
4d	100117		5+	CV4014		7R	5X4G	
4f	PY81	Bee		M8083		7S	5Z4G	
4k	K51A					7T	5Z4GT	
4r	EM71		6A	CV4025		7U	6BG6G	
4t	6283A			M8079		7W	6J7G	
43	PL36		6B	7247		7X	6J7GT	
	2.50E+06		6C	DCF60		7Y	6K7G	
44	UY92		6D	DF61		7Z	6K7GT	
45	UL44		6E	DF63		7d	6K8G	
47	EB4		6H	ME1201AG		7f	M2EC	
48	PL38M		6J	Z303C		7k	6K8GT	
49	2A		6K	MX103		7m	6Q7G	
4+	CCH3		6L	MX120		7r	6Q7GT	
			6M	MX122		7t	12J7G	
5A	CV9		6N	MX123		70	3AU6	
5C	XY81		6P	MX124		71	39EF	
5D	ECH81		6R	MX125		76	5876A	
5E	QE04/10		6S	MX125		7+	18503	
Code	Type	Comment	Code	Type	Comment	Code	Type	Comment
8A	12J7GT		90	ET51				
8B	12K7G		92	CV2469				
8C	12K7GT		93	CV2469				
8D	12K8G		97	QQV04-16				
8E	12K8GT		99	MX152				
8F	12Q7G							
8G	CV4034		*C	Z70U				
8H	12Q7GT			Z700U				
8I	E81L	en	*T	Z521M				
8K	12SJ7GT		*U	Z522M				

8L	19BG6G							
8M	25Y5G		nC	Z70U				
8P	25Z6G							
8R	CV4007							
8S	35Z4G							
8U	CV2204							
8W	C3m							
	CV5232							
	R20F							
8Y	EF86							
	6267							
8Z	PY32							
8d	CCH3	Mullard						
8f	E90F							
	7693							
8k	PY88							
	30AE3							
8m	OCC38							
8r	95108							
8t	EZ81							
	6CA4							
88	5893A							
9A	5Z3							
9B	6AS5							
9C	6A7							
6D	6C5GT							
9E	6F6GT							
9F	6J5GT							
9G	6AS6							
9J	VX8084							
9K	6L6GA							
9L	6X5							
9N	42							
9P	PP35							
9R	PP36							
9S	PP60							
9V	5840							
	CV3929							
9Z	Z550E							
9k	UY82							
9m	EL41A	tech						
9r	EF86	en						
9t	PY83							
Philips / Amperex / Mullard / Valvo three digit codes								
Code	Type	Comment	Code	Type	Comment	Code	Type	Comment
AAA	PL509		ACF	EL521				
AAB	LL802		ACG	EL802				
AAC	ECF80A		ACH	EL503				
	6GH6A		ACK	EL803S				

AAD	EL509		ACL	P81			
	6KG6A		ACM	D3a			
AAE	LL509			7721			
AAF	XL509		CAN	5876			
AAG	N30EL		ACR	6FQ7			
	6LF6		ACS	12AD6A			
AAH	10KG6		ACT	12BX6			
AAK	6HT5		ACU	25AV5GA			
AAL	VC9620		ACV	20LF6			
AAM	3HQ5		ACW	XCF80A			
AAN	6HQ5		ACY	8AF9			
AAP	ECF202		ACZ	ECC801S			
	6AJ9						
AAR	PCL805	S&H	ADA	40LF6			
AAS	27LF6			7984			
AAT	7586		ADB	CV6189			
AAU	5893		ADC	PY500A			
AAV	6263		ADD	EY500A			
AAW	6264		ADE	LY500A			
AAX	5676		ADF	XY500A			
AAZ	5687		ADG	EL91N			
	5751		ADH	15GK6			
			ADK	N25PC			
ABA	7587		ADR	N20PL			
ABB	5085		ADS	PCF808			
ABC	1817		ADU	6LV6			
ABD	N1EFL						
	8AF9		AEA	16AF9			
ABE	5963						
ABG	6264A		MCH	CV6189			
ABK	5642		MCT	PL95			
ABL	12BY7						
ABM	12AT5		MER	TH2			
ABP	5R4GY		MES	YL1220			
ABR	ECC8100		MET	ZP1080			
ABS	12AU7WA		MEU	ZP1081			
	6189		MEW	K81A			
ABT	EL805		MEX	N54RPY			
ABU	ECL805						
ABV	LD500		MFC	6D4			
ABW	XD500		MFD	CV287			
ABY	CV4110		MFF	N55RPY			
ABZ	CV4111		MFZ	CV359			
ACB	DW4-500		MGC	VX8250			
ACC	EF800		MGF	VX8252			
ACD	EF802						
ACE	6CF6						