TYPE NUMBER	MFR	APP	CMP	GBP MIN	SLEW RATE MIN	V_S^+ MAX	V_S^- MAX	T_{op} MAX	A_{VOL} MIN	V_{IO} MAX	I_B MAX	I_{IO} MAX	P_{TOT} MAX	I_{OUT} MIN	V_{OUT} MIN	V_{ICM} MAX	V_{IDF} MAX	dV_{IO}/dT MAX	P_D MAX	I_Q MAX	CM RR MIN	PS RR MIN	R_{IN} MIN
TDB0124	THF	QGK	INT	.	.	+16V	-16V	70C	88dB	5MV	250NA	50NA	900MWF	.	.	16V	16V	35uV/C	.	2MA	65dB	65dB	.
TDB0791-DP	THF	HPO	INT	.	.	+18V	-18V	70C	86dB	6MV	500NA	200NA	500MWF	1A	11V	15V	30V	.	.	25MA	70dB	76dB	300K
TDB0791-EP	THF	HPO	INT	.	.	+18V	-18V	70C	86dB	6MV	500NA	200NA	15WH	1A	11V	15V	30V	.	.	25MA	70dB	76dB	300K
TDB0791-KM	THF	HPO	INT	.	.	+18V	-18V	70C	86dB	6MV	500NA	200NA	15WC	1A	11V	15V	30V	.	.	25MA	70dB	76dB	300K
TDC0118-CM	TFH	XSR	INT	.	50V/uS	+18V	-18V	125C	94dB	6MV	300NA	50NA	500MWF	7MA	12V	15V	1V	.	.	8MA	80dB	70dB	1M
TDC0119-CM	THF	DCP	INT	.	.	+18V	-18V	125C	80dB	4MV	500NA	75NA	500MWF	6MA	.	15V	5V	.	.	12MA	.	.	.
TDC0119-DC	THF	DCP	INT	.	.	+18V	-18V	125C	80dB	4MV	500NA	75NA	500MWF	6MA	.	15V	5V	.	.	12MA	.	.	.
TDC0124	THF	QGK	INT	.	.	+16V	-16V	125C	94dB	7MV	150NA	30NA	900MWF	.	.	16V	16V	35uV/C	.	2MA	70dB	65dB	.
TDC0791-KM	THF	HPO	INT	.	.	+22V	-22V	125C	94dB	5MV	500NA	200NA	15WC	1A	11V	15V	30V	.	.	25MA	70dB	76dB	300K
TDC5711	TRU	DCP	EXT	.	.	+14V	-7V	70C	58dB	5MV	100uA	15uA	300MWF	5MA	1.7V	7V	5V	.	300MW	11MA	.	.	.
TDC5711F	TRU	DCP	EXT	.	.	+14V	-7V	70C	58dB	5MV	100uA	15uA	300MWF	5MA	1.7V	7V	5V	.	300MW	11MA	.	.	.
TDC5711P	TRU	DCP	EXT	.	.	+14V	-7V	70C	58dB	5MV	100uA	15uA	300MWF	5MA	1.7V	7V	5V	.	300MW	11MA	.	.	.
TDE0118-CM	TFH	XSR	INT	.	50V/uS	+18V	-18V	85C	88dB	10MV	600NA	200NA	500MW	5MA	12V	15V	1V	.	.	10MA	70dB	65dB	1M
TDE0119-CM	THF	DCP	INT	.	.	+18V	-18V	85C	80dB	4MV	500NA	75NA	500MWF	6MA	.	15V	5V	.	.	12MA	.	.	.
TDE0119-DP	THF	DCP	INT	.	.	+18V	-18V	85C	80dB	4MV	500NA	75NA	500MWF	6MA	.	15V	5V	.	.	12MA	.	.	.
TDE0124	THF	QGK	INT	.	.	+16V	-16V	85C	94dB	5MV	150NA	30NA	900MWF	.	.	16V	16V	35uV/C	.	2MA	70dB	65dB	.
TDF2902DP	THG	QGK	INT	.	.	+16V	-16V	85C	88dB	7MV	250NA	50NA	570MWF	.	.	16V	16V	35uV/C	.	2MA	50dB	50dB	.
TOA101AE	TRU	GPU	EXT	.	.	+22V	-22V	125C	94dB	2MV	75NA	10NA	500MWF	5MA	12V	15V	30V	15uV/C	.	3MA	80dB	80dB	1.5M
TOA101AF	TRU	GPU	EXT	.	.	+22V	-22V	125C	94dB	2MV	75NA	10NA	500MWF	5MA	12V	15V	30V	15uV/C	.	3MA	80dB	80dB	1.5M
TOA101AJ	TRU	GPU	EXT	.	.	+22V	-22V	125C	94dB	2MV	75NA	10NA	500MWF	5MA	12V	15V	30V	15uV/C	.	3MA	80dB	80dB	1.5M
TOA101AV	TRU	GPU	EXT	.	.	+22V	-22V	125C	94dB	2MV	75NA	10NA	500MWF	5MA	12V	15V	30V	15uV/C	.	3MA	80dB	80dB	1.5M
TOA201AE	TRU	GPU	EXT	.	.	+22V	-22V	85C	94dB	2MV	75NA	10NA	500MWF	5MA	12V	15V	30V	15uV/C	.	3MA	80dB	80dB	500K
TOA201AF	TRU	GPU	EXT	.	.	+22V	-22V	85C	94dB	2MV	75NA	10NA	500MWF	5MA	12V	15V	30V	15uV/C	.	3MA	80dB	80dB	500K
TOA201AJ	TRU	GPU	EXT	.	.	+22V	-22V	85C	94dB	2MV	75NA	10NA	500MWF	5MA	12V	15V	30V	15uV/C	.	3MA	80dB	80dB	500K
TOA201AV	TRU	GPU	EXT	.	.	+22V	-22V	85C	94dB	2MV	75NA	10NA	500MWF	5MA	12V	15V	30V	15uV/C	.	3MA	80dB	80dB	500K
TOA301AE	TRU	GPU	EXT	.	.	+18V	-18V	70C	88dB	7.5MV	250NA	50NA	500MWF	5MA	12V	15V	30V	30uV/C	.	3MA	70dB	70dB	500K
TOA301AF	TRU	GPU	EXT	.	.	+18V	-18V	70C	88dB	7.5MV	250NA	50NA	.	5MA	12V	15V	30V	30uV/C	.	3MA	70dB	70dB	500K
TOA301AJ	TRU	GPU	EXT	.	.	+18V	-18V	70C	88dB	7.5MV	250NA	50NA	500MWF	5MA	12V	15V	30V	30uV/C	.	3MA	70dB	70dB	500K
TOA301AV	TRU	GPU	EXT	.	.	+18V	-18V	70C	88dB	7.5MV	250NA	50NA	500MWF	5MA	12V	15V	30V	30uV/C	.	3MA	70dB	70dB	500K
TOA1709E	TRU	GPU	EXT	.	.	+18V	-18V	125C	88dB	5MV	500NA	200NA	330MWF	5MA	12V	10V	5V	15uV/C	165MW	.	70dB	76dB	150K
TOA1709F	TRU	GPU	EXT	.	.	+18V	-18V	125C	88dB	5MV	500NA	200NA	330MWF	5MA	12V	10V	5V	15uV/C	165MW	.	70dB	76dB	150K
TOA1709J	TRU	GPU	EXT	.	.	+18V	-18V	125C	88dB	5MV	500NA	200NA	330MWF	5MA	12V	10V	5V	15uV/C	165MW	.	70dB	76dB	150K
TOA1709P	TRU	GPU	EXT	.	.	+18V	-18V	125C	88dB	5MV	500NA	200NA	330MWF	5MA	12V	10V	5V	15uV/C	165MW	.	70dB	76dB	150K
TOA1709V	TRU	GPU	EXT	.	.	+18V	-18V	125C	88dB	5MV	500NA	200NA	300MWF	5MA	12V	10V	5V	15uV/C	165MW	.	70dB	76dB	150K
TOA1741E	TRU	GPK	INT	.	0.1V/uS	+22V	-22V	125C	94dB	5MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA1741F	TRU	GPK	INT	.	0.1V/uS	+22V	-22V	125C	94dB	5MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA1741J	TRU	GPK	INT	.	0.1V/uS	+22V	-22V	125C	94dB	5MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA1741P	TRU	GPK	INT	.	0.1V/uS	+22V	-22V	125C	94dB	5MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA1741V	TRU	GPK	INT	.	0.1V/uS	+22V	-22V	125C	94dB	5MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA1741WF	TRU	GPU	EXT	.	0.1V/uS	+22V	-22V	125C	94dB	5MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	.	70dB	76dB	300K
TOA1741WP	TRU	GPU	EXT	.	0.1V/uS	+22V	-22V	125C	94dB	5MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	.	70dB	76dB	300K
TOA1741WV	TRU	GPU	EXT	.	0.1V/uS	+22V	-22V	125C	94dB	5MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	.	70dB	76dB	300K
TOA1747AV	TRU	DGK	INT	.	0.1V/uS	+22V	-22V	125C	94dB	5MV	500NA	200NA	800MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA1747BV	TRU	DGK	INT	.	0.1V/uS	+22V	-22V	125C	94dB	5MV	500NA	200NA	800MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA1747J	TRU	DGK	INT	.	0.1V/uS	+22V	-22V	125C	94dB	5MV	500NA	200NA	800MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA1748E	TRU	GPU	EXT	.	0.1V/uS	+22V	-22V	125C	94dB	5MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA1748F	TRU	GPU	EXT	.	0.1V/uS	+22V	-22V	125C	94dB	5MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA1748J	TRU	GPU	EXT	.	0.1V/uS	+22V	-22V	125C	94dB	5MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA1748P	TRU	GPU	EXT	.	0.1V/uS	+22V	-22V	125C	94dB	5MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA1748V	TRU	GPU	EXT	.	0.1V/uS	+22V	-22V	125C	94dB	5MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA1809E	TRU	DGU	EXT	.	.	+18V	-18V	125C	88dB	5MV	500NA	200NA	415MWF	5MA	12V	10V	5V	15uV/C	160MW	.	70dB	76dB	150K
TOA1809J	TRU	DGU	EXT	.	.	+18V	-18V	125C	88dB	5MV	500NA	200NA	500MWF	5MA	12V	10V	5V	15uV/C	160MW	.	70dB	76dB	150K
TOA2709E	TRU	GPU	EXT	.	.	+18V	-18V	70C	84dB	7.5MV	1.5uA	0.5uA	115MWF	5MA	12V	10V	5V	.	200MW	.	65dB	74dB	50K
TOA2709F	TRU	GPU	EXT	.	.	+18V	-18V	70C	84dB	7.5MV	1.5uA	0.5uA	115MWF	5MA	12V	10V	5V	.	200MW	.	65dB	74dB	50K
TOA2709J	TRU	GPU	EXT	.	.	+18V	-18V	70C	84dB	7.5MV	1.5uA	0.5uA	115MWF	5MA	12V	10V	5V	.	200MW	.	65dB	74dB	50K
TOA2709P	TRU	GPU	EXT	.	.	+18V	-18V	70C	84dB	7.5MV	1.5uA	0.5uA	115MWF	5MA	12V	10V	5V	.	200MW	.	65dB	74dB	50K
TOA2709V	TRU	GPU	EXT	.	.	+18V	-18V	70C	84dB	7.5MV	1.5uA	0.5uA	300MWF	5MA	12V	10V	5V	.	200MW	.	65dB	74dB	50K
TOA2741E	TRU	GPK	INT	.	0.1V/uS	+18V	-18V	70C	86dB	6MV	500NA	200NA	500MW	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA2741F	TRU	GPK	INT	.	0.1V/uS	+18V	-18V	70C	86dB	6MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA2741J	TRU	GPK	INT	.	0.1V/uS	+18V	-18V	70C	86dB	6MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K

For detailed explanations of column heading notations, see App. A.

Also for *ready references the* more important abbreviations used in the column headings are listed below:

LEFT HAND PAGE

APP = application (codes at APP.E.)

CMRR = common mode rejection ratio

CMP = compensation (frequency)

dV_{IO}/dT = input offset voltage temperature drift

GBP = gain bandwidth product

I_B = input bias current

I_{IO} = input bias offset current

I_Q = quiescent supply current

MFR = manufacturer (codes at App.C.)

P_Q = quiescent power consumer

PSRR = power supply rejection ratio

V_{ICM} = common mode input voltage rating

V_{IDF} = differential input voltage rating

V_{IO} = input offset voltage

V_S = dc supply voltage

RIGHT HAND PAGE

Lead out coding summary (details at APP.G.) for different cases (APP.F.)

A = gain adjust

B = bias adjust

C = case

E− = inverting input

E+ = non-inverting input

F,F* = input frequency compensation

G = ground

J = high level input

K = output, open collector

L = output, open emitter

M = metal case

N = not connected

Q = special terminal

R,R* = outputs

S = strobe

T,T* = offset balance

V+ = +ve dc supply

V− = −ve dc supply

W = guard ring

X = blank position, no lead

+ + = +ve supplementary dc supply

− − = −ve supplementary dc supply

ø,ø* = output frequency compensation

CASE (APP.F)	LD 1	LD 2	LD 3	LD 4	LD 5	LD 6	LD 7	LD 8	LD 9	LD 10	LD 11	LD 12	LD 13	LD 14	LD 15	LD 16	EUROPE SUBSTI-TUTE	USA SUBSTI-TUTE	I S S	TYPE NUMBER
DIL-14/1P	R1	E-1	E+1	V+	E+2	E-2	R2	R3	E-3	E+3	G	E+4	E-4	R4	.	.	MLM324J	LM324D	0	TDB0124
DIL-14/1P	F	Q	V+	V+	R	N	V-	V-	ø	T	N	T*	E-	N	.	.	.	.	0	TDB0791-DP
HIL-14/1P	F	Q	V+	V+	R	N	V-	V-	ø	T	N	T*	E-	N	.	.	.	.	0	TDB0791-EP
TO3-10/2M	R	V+	Q	F	E+	E-	T	T*	ø	V-M	.	.	.	.	.	.	.	UA791KC	0	TDB0791-KM
TO5-8/1M	T*F	E-	E+	V-	F*T	R	V+	ø	.	.	.	.	.	.	.	.	SF.C2118M	LM218H	0	TDC0118-CM
TO5-10/1M	R1	G1	E+1	E-1	V-	R2	G2	E+2	E-2	V+	.	.	.	.	.	.	.	LM119H	0	TDC0119-CM
DIL-14/1C	N	N	G1	E+1	E-1	V-	R2	G2	E+2	E-2	V+	R1	N	N	.	.	.	LM119D	0	TDC0119-DC
DIL-14/1P	R1	E-1	E+1	V+	E+2	E-2	R2	R3	E-3	E+3	G	E+4	E-4	R4	.	.	MLM124D	LM124D	0	TDC0124
TO3-10/2M	R	V+	Q	F	E+	E-	T	T*	ø	V-M	.	.	.	.	.	.	.	UA791KM	0	TDC0791-KM
TO5-10/1M	G	S1	E-1	E+1	V-	E+2	E-2	S2	R	V+	.	.	.	.	.	.	SFC2711C	UA711HC	0	TDC5711
FLP-10/3C	E-1	E+2	V-	E+2	E-2	S2	R	V+	G	S1	.	.	.	.	.	.	SFC2711PM	UA711FM	0	TDC5711F
DIL-14/1P	N	E-2	E+2	V-	E+2	E-2	N	N	S2	R	V+	G	S1	N	.	.	SFC2711EC	UA711DC	0	TDC5711P
TO5-8/1M	T*F	E-	E+	V-	F*T	R	V+	ø	.	.	.	.	.	.	.	.	SF.C2218	LM118H	0	TDE0118-CM
TO5-10/1M	R1	G1	E+1	E-1	V-	R2	G2	E+2	E-2	V+	.	.	.	.	.	.	.	LM219H	0	TDE0119-CM
DIL-14/1C	N	N	G1	E+1	E-1	V-	R2	G2	E+2	E-2	V+	R1	N	N	.	.	.	LM219D	0	TDE0119-DP
DIL-14/1P	R1	E-1	E+1	V+	E+2	E-2	R2	R3	E-3	E+3	G	E+4	E-4	R4	.	.	SG224J	LM224D	0	TDE0124
DIL-14/1P	R1	E-1	E+1	V+	E+2	E-2	R2	R3	E-3	E+3	G	E+4	E-4	R4	.	.	MLM2902P	LM2902J	0	TDF2902DP
DIL-14/1P	N	N	FT	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	UA101AD	LM101AJ14	0	T0A101AE
FLP-10/3C	N	FT	E-	E+	V-	T*	R	V+	F*	N	.	.	.	.	.	.	SFC2101APM	LM101AF	0	T0A101AF
DIL-14/1C	N	N	FT	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	UA101AD	LM101AJ14	0	T0A101AJ
TO5-8/1M	FT	E-	E+	V-M	T*	R	V+	F*	.	.	.	.	.	.	.	.	SFC2101A	LM101AH	0	T0A101AV
DIL-14/1P	N	N	FT	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	UA201D	LM201AJ14	0	T0A201AE
FLP-10/3C	N	FT	E-	E+	V-	T*	R	V+	F*	N	.	.	.	.	.	.	SFC2201APT	LM201AF	0	T0A201AF
DIL-14/1C	N	N	FT	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	UA201AD	LM201AJ14	0	T0A201AJ
TO5-8/1M	FT	E-	E+	V-M	T*	R	V+	F*	.	.	.	.	.	.	.	.	SFC2101A	LM201AH	0	T0A201AV
DIL-14/1P	N	N	FT	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	UA301AD	LM301AJ14	0	T0A301AE
FLP-10/3C	N	FT	E-	E+	V-	T*	R	V+	F*	N	.	.	.	.	.	.	SFC2201APM	LM201AF	0	T0A301AF
DIL-14/1C	N	N	FT	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	UA301AD	LM301AJ14	0	T0A301AJ
TO5-8/1M	FT	E-	E+	V-M	T*	R	V+	F*	.	.	.	.	.	.	.	.	SFC2301AH	LM301AH	0	T0A301AV
DIL-14/1P	N	N	F*	E-	E+	V-	N	N	ø	R	V+	F	N	N	.	.	LM709D	UA709DM	0	T0A1709E
FLP-10/3C	N	F*	E-	E+	V-	ø	R	V+	F	N	.	.	.	.	.	.	.	UA709FM	0	T0A1709F
DIL-14/1C	N	N	F*	E-	E+	V-	N	N	ø	R	V+	F	N	N	.	.	LM709D	UA709DM	0	T0A1709J
DIL-14/1P	N	N	F*	E-	E+	V-	N	N	ø	R	V+	F+	N	N	.	.	LM709D	UA709DM	0	T0A1709P
TO5-8/1M	F*	E-	E+	V-M	ø	R	V+	F	.	.	.	.	.	.	.	.	TAA522	UA709HM	0	T0A1709V
DIL-14/1P	N	N	T	E-	E+	V-	N	N	T*	R	V+	N	N	N	.	.	LM741D	UA741DM	0	T0A1741E
FLP-10/3C	N	T	E-	E+	V-	T*	R	V+	N	N	.	.	.	.	.	.	LM741F	UA741FM	0	T0A1741F
DIL-14/1C	N	N	T	E-	E+	V-	N	N	T*	R	V+	N	N	N	.	.	LM741D	UA741DM	0	T0A1741J
DIL-14/1P	N	N	T	E-	E+	V-	N	N	T*	R	V+	N	N	N	.	.	LM741D	UA741DM	0	T0A1741P
TO5-8/1M	T	E-	E+	V-M	T*	R	V+	N	.	.	.	.	.	.	.	.	TBA222	UA741HM	0	T0A1741V
FLP-10/3C	N	T	E-	E+	V-	T*	R	V+	F	N	.	.	.	.	.	.	SN52748FA	UA748FM	0	T0A1741WF
DIL-14/1C	N	N	T	E-	E+	V-	N	N	T*	R	V+	F	N	N	.	.	SN52748JA	UA748DM	0	T0A1741WP
TO5-8/1M	T	E-	E+	V-	T*	R	V+	F	.	.	.	.	.	.	.	.	TBC0748	UA748HM	0	T0A1741WV
TO5-10/1M	R1	V+1	E-1	E+1	V-	E+2	V+2	R2	N	.	.	.	.	.	.	.	SFC2747M	UA747HM	0	T0A1747AV
TO5-8/1M	R1	E-1	E+1	V-	E+2	E-2	R2	V+	.	.	.	.	.	.	.	.	TBC1458	MC1558G	0	T0A1747BV
DIL-14/1C	E-1	E+1	T1	V-	T2	E+2	E-2	T*2	V+2	R2	N	R1	V+1	T*1	.	.	SFC2747KM	UA747DM	0	T0A1747J
DIL-14/1P	N	N	TF	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	SN52748JA	UA748DM	0	T0A1748E
FLP-10/3C	N	TF	E-	E+	V-	T*	R	V+	F*	N	.	.	.	.	.	.	SN52748FA	UA748FM	0	T0A1748F
DIL-14/1C	N	N	TF	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	SN52748JA	UA748DM	0	T0A1748J
DIL-14/1P	N	N	TF	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	SN52748JA	UA748DM	0	T0A1748P
TO5-8/1M	TF	E-	E+	V-M	T*	R	V+	F*	.	.	.	.	.	.	.	.	TBC0748	UA748HM	0	T0A1748V
DIL-14/1P	ø2	R	F2	F*2	E-2	E+2	V-	E+1	E-1	F*1	F1	R1	ø1	V+	.	.	RM1537DC	MC1537L	0	T0A1809E
DIL-14/1C	ø2	R	F2	F*2	E-2	E+2	V-	E+1	E-1	F*1	F1	R1	ø1	V+	.	.	RM1537DC	MC1537L	0	T0A1809J
DIL-14/1P	N	N	F*	E-	E+	V-	N	N	ø	R	V+	F	N	N	.	.	TAA521A	UA709DC	0	T0A2709E
FLP-10/1C	N	F*	E-	E+	V-	ø	R	V+	F	N	.	.	.	.	.	.	.	MC1709F	0	T0A2709F
DIL-14/1C	N	N	F*	E-	E+	V-	N	N	ø	R	V+	F	N	N	.	.	TAA521A	UA709DC	0	T0A2709J
DIL-14/1P	N	N	F*	E-	E+	V-	N	N	ø	R	V+	F	N	N	.	.	TAA521A	UA709DC	0	T0A2709P
TO5-8/1M	F*	E-	E+	V-M	ø	R	V+	F	.	.	.	.	.	.	.	.	TAA521	UA709HC	0	T0A2709V
DIL-14/1P	N	N	T	E-	E+	V-	N	N	T*	R	V+	N	N	N	.	.	TBA221A	UA741DC	0	T0A2741E
FLP-10/3C	N	T	E-	E+	V-	T*	R	V+	N	N	.	.	.	.	.	.	LM741F	UA741FM	0	T0A2741F
DIL-14/1C	N	N	T	E-	E+	V-	N	N	T*	R	V+	N	N	N	.	.	TBA221A	UA741DC	0	T0A2741J

TYPE NUMBER	MFR	APP	CMP	GBP MIN	SLEW RATE MIN	V_S^+ MAX	V_S^- MAX	T_{op} MAX	A_{VOL} MIN	V_{IO} MAX	I_B MAX	I_{IO} MAX	P_{TOT} MAX	I_{OUT} MIN	V_{OUT} MIN	V_{ICM} MAX	V_{IDF} MAX	dV_{IO}/dT MAX	P_D MAX	I_Q MAX	CM RR MIN	PS RR MIN	R_{IN} MIN
TOA2741P	TRU	GPK	INT	.	0.1V/uS	+18V	-18V	70C	86dB	6MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA2741V	TRU	GPK	INT	.	0.1V/uS	+18V	-18V	70C	86dB	6MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA2741WF	TRU	GPU	EXT	.	0.1V/uS	+18V	-18V	70C	86dB	6MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	.	70dB	76dB	300K
TOA2741WP	TRU	GPU	EXT	.	0.1V/uS	+18V	-18V	70C	86dB	6MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	.	70dB	76dB	300K
TOA2741WV	TRU	GPU	EXT	.	0.1V/uS	+18V	-18V	70C	86dB	6MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	.	70dB	76dB	300K
TOA274AV	TRU	DGK	INT	.	0.1V/uS	+18V	-18V	70C	86dB	6MV	500NA	200NA	800MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA2747BV	TRU	DGK	INT	.	0.1V/uS	+18V	-18V	70C	86dB	6MV	500NA	200NA	800MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA2747J	TRU	DGK	INT	.	0.1V/uS	+18V	-18V	70C	86dB	6MV	500NA	200NA	800MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA2748E	TRU	GPU	EXT	.	0.1V/uS	+18V	-18V	70C	86dB	6MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA2748F	TRU	GPU	EXT	.	0.1V/uS	+18V	-18V	70C	86dB	6MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA2748J	TRU	GPU	EXT	.	0.1V/uS	+18V	-18V	70C	86dB	6MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA2748P	TRU	GPU	EXT	.	0.1V/uS	+18V	-18V	70C	86dB	6MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA2748V	TRU	GPU	EXT	.	0.1V/uS	+18V	-18V	70C	86dB	6MV	500NA	200NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	300K
TOA2809E	TRU	DGU	EXT	.	.	+18V	-18V	70C	84dB	7.5MV	1.5uA	0.5uA	415MWF	5MA	12V	10V	5V	.	200MW	.	65dB	74dB	50K
TOA2809J	TRU	DGU	EXT	.	.	+18V	-18V	70C	84dB	7.5MV	1.5uA	0.5uA	500MWF	5MA	12V	10V	5V	.	200MW	.	65dB	74dB	50K
TUA3709E	TRU	GPU	EXT	.	.	+18V	-18V	70C	88dB	5MV	500NA	200NA	115MWF	5MA	12V	10V	5V	15uV/C	165MW	.	70dB	76dB	150K
TOA3709F	TRU	GPU	EXT	.	.	+18V	-18V	70C	88dB	5MV	500NA	200NA	115MWF	5MA	12V	10V	5V	15uV/C	165MW	.	70dB	76dB	150K
TOA3709J	TRU	GPU	EXT	.	.	+18V	-18V	70C	88dB	5MV	500NA	200NA	115MWF	5MA	12V	10V	5V	15uV/C	165MW	.	70dB	76dB	150K
TOA3709P	TRU	GPU	EXT	.	.	+18V	-18V	70C	88dB	5MV	500NA	200NA	115MWF	5MA	12V	10V	5V	15uV/C	165MW	.	70dB	76dB	150K
TOA3709V	TRU	GPU	EXT	.	.	+18V	-18V	70C	88dB	5MV	500NA	200NA	300MWF	5MA	12V	10V	5V	15uV/C	165MW	.	70dB	76dB	150K
TOA3741E	TRU	GPK	INT	.	0.2V/uS	+22V	-22V	125C	94dB	2MV	10NA	5NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	10M
TOA3741F	TRU	GPK	INT	.	0.2V/uS	+22V	-22V	125C	94dB	2MV	10NA	5NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	10M
TOA3741J	TRU	GPK	INT	.	0.2V/uS	+22V	-22V	125C	94dB	2MV	10NA	5NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	10M
TOA3741P	TRU	GPK	INT	.	0.2V/uS	+22V	-22V	125C	94dB	2MV	10NA	5NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	10M
TOA3741V	TRU	GPK	INT	.	0.2V/uS	+22V	-22V	125C	94dB	2MV	10NA	5NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	10M
TOA3748E	TRU	GPU	EXT	.	0.2V/uS	+22V	-22V	125C	94dB	2MV	75NA	10NA	500MWF	5MA	12V	15V	30V	30uV/C	85MW	3MA	80dB	80dB	1.5M
TOA3748F	TRU	GPU	EXT	.	0.2V/uS	+22V	-22V	125C	94dB	2MV	75NA	10NA	500MWF	5MA	12V	15V	30V	30uV/C	85MW	3MA	80dB	80dB	1.5M
TOA3748J	TRU	GPU	EXT	.	0.2V/uS	+22V	-22V	125C	94dB	2MV	75NA	10NA	500MWF	5MA	12V	15V	30V	30uV/C	85MW	3MA	80dB	80dB	1.5M
TOA3748V	TRU	GPU	EXT	.	0.2V/uS	+22V	-22V	125C	94dB	2MV	75NA	10NA	500MWF	5MA	12V	15V	30V	30uV/C	85MW	3MA	80dB	80dB	1.5M
TOA4709E	TRU	GPU	EXT	.	.	+18V	-18V	125C	88dB	2MV	200NA	50NA	330MWF	5MA	12V	10V	5V	10uV/C	108MW	.	80dB	80dB	350K
TOA4709F	TRU	GPU	EXT	.	.	+18V	-18V	125C	88dB	2MV	200NA	50NA	330MWF	5MA	12V	10V	5V	10uV/C	108MW	.	80dB	80dB	350K
TOA4709J	TRU	GPU	EXT	.	.	+18V	-18V	125C	88dB	2MV	200NA	50NA	330MWF	5MA	12V	10V	5V	10uV/C	108MW	.	80dB	80dB	350K
TOA4709P	TRU	GPU	EXT	.	.	+18V	-18V	125C	88dB	2MV	200NA	50NA	330MWF	5MA	12V	10V	5V	10uV/C	108MW	.	80dB	80dB	350K
TOA4709V	TRU	GPU	EXT	.	.	+18V	-18V	125C	88dB	2MV	200NA	50NA	300MWF	5MA	12V	10V	5V	10uV/C	108MW	.	80dB	80dB	350K
TOA7741E	TRU	GPK	INT	.	0.2V/uS	+22V	-22V	125C	94dB	5MV	30NA	10NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	3M
TOA7741F	TRU	GPK	INT	.	0.2V/uS	+22V	-22V	125C	94dB	5MV	30NA	10NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	3M
TOA7741J	TRU	GPK	INT	.	0.2V/uS	+22V	-22V	125C	94dB	5MV	30NA	10NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	3M
TOA7741P	TRU	GPK	INT	.	0.2V/uS	+22V	-22V	125C	94dB	5MV	30NA	10NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	3M
TOA7741V	TRU	GPK	INT	.	0.2V/uS	+22V	-22V	125C	94dB	5MV	30NA	10NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	3M
TOA7747AV	TRU	DGK	INT	.	0.2V/uS	+22V	-22V	125C	94dB	5MV	30NA	10NA	800MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	3M
TOA7747BV	TRU	DGK	INT	.	0.2V/uS	+22V	-22V	125C	94dB	5MV	30NA	10NA	800MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	3M
TOA7748E	TRU	GPU	EXT	.	0.2V/uS	+22V	-22V	125C	94dB	5MV	30NA	10NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	3M
TOA7748F	TRU	GPU	EXT	.	0.2V/uS	+22V	-22V	125C	94dB	5MV	30NA	10NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	3M
TOA7748J	TRU	GPU	EXT	.	0.2V/uS	+22V	-22V	125C	94dB	5MV	30NA	10NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	3M
TOA7748V	TRU	GPU	EXT	.	0.2V/uS	+22V	-22V	125C	94dB	5MV	30NA	10NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	3M
TOA8741E	TRU	GPK	INT	.	0.2V/uS	+18V	-18V	70C	86dB	6MV	60NA	20NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	1M
TOA8741F	TRU	GPK	INT	.	0.2V/uS	+18V	-18V	70C	86dB	6MV	60NA	20NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	1M
TOA8741J	TRU	GPK	INT	.	0.2V/uS	+18V	-18V	70C	86dB	6MV	60NA	20NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	1M
TOA8741P	TRU	GPK	INT	.	0.2V/uS	+18V	-18V	70C	86dB	6MV	60NA	20NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	1M
TOA8741V	TRU	GPK	INT	.	0.2V/uS	+18V	-18V	70C	86dB	6MV	60NA	20NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	1M
TOA8747AV	TRU	DGK	INT	.	0.2V/uS	+18V	-18V	70C	86dB	6MV	60NA	20NA	800MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	1M
TOA8747BV	TRU	DGK	INT	.	0.2V/uS	+18V	-18V	70C	86dB	6MV	60NA	20NA	800MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	1M
TOA8748E	TRU	GPU	EXT	.	0.2V/uS	+18V	-18V	70C	86dB	6MV	60NA	20NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	1M
TOA8748F	TRU	GPU	EXT	.	0.2V/uS	+18V	-18V	70C	86dB	6MV	60NA	20NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	1M
TOA8748J	TRU	GPU	EXT	.	0.2V/uS	+18V	-18V	70C	86dB	6MV	60NA	20NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	1M
TOA8748V	TRU	GPU	EXT	.	0.2V/uS	+18V	-18V	70C	86dB	6MV	60NA	20NA	500MWF	5MA	12V	15V	30V	.	85MW	3MA	70dB	76dB	1M
TSC1225E	TRU	DCP	EXT	.	.	+14V	-7V	125C	84dB	3.5MV	30uA	10uA	300MWF	.	1.3V	7V	5V	.	.	20MA	.	.	.
TSC1225F	TRU	DCP	EXT	.	.	+14V	-7V	125C	84dB	3.5MV	30uA	10uA	300MWF	.	1.3V	7V	5V	.	.	20MA	.	.	.
TSC1225J	TRU	DCP	EXT	.	.	+14V	-7V	125C	84dB	3.5MV	30uA	10uA	300MWF	.	1.3V	7V	5V	.	.	20MA	.	.	.
TSC1225V	TRU	DCP	EXT	.	.	+14V	-7V	125C	84dB	3.5MV	30uA	10uA	300MWF	.	1.3V	7V	5V	.	.	20MA	.	.	.

For detailed explanations of column heading notations, see App. A.

Also for ready references the more important abbreviations used in the column headings are listed below:

LEFT HAND PAGE

APP = application (codes at APP.E.)

CMRR = common mode rejection ratio

CMP = compensation (frequency)

dV_{IO}/dT = input offset voltage temperature drift

GBP = gain bandwidth product

I_B = input bias current

I_{IO} = input bias offset current

I_D = quiescent supply current

MFR = manufacturer (codes at App.C.)

P_D = quiescent power consumer

PSRR = power supply rejection ratio

V_{ICM} = common mode input voltage rating

V_{IDI} = differential input voltage rating

V_{IO} = input offset voltage

V_S = dc supply voltage

RIGHT HAND PAGE

Lead out coding summary (details at APP.G.) for different cases (APP.F.)

A = gain adjust

B = bias adjust

C = case

E− = inverting input

E+ = non-inverting input

F,F* = input frequency compensation

G = ground

J = high level input

K = output, open collector

L = output, open emitter

M = metal case

N = not connected

Q = special terminal

R,R* = outputs

S = strobe

T,T* = offset balance

V+ = +ve dc supply

V− = −ve dc supply

W = guard ring

X = blank position, no lead

+ + = +ve supplementary dc supply

− − = −ve supplementary dc supply

ø,ø* = output frequency compensation

CASE (APP.F)	LD 1	LD 2	LD 3	LD 4	LD 5	LD 6	LD 7	LD 8	LD 9	LD 10	LD 11	LD 12	LD 13	LD 14	LD 15	LD 16	EUROPE SUBSTITUTE	USA SUBSTITUTE	I SS	TYPE NUMBER
DIL-14/1P	N	N	T	E-	E+	V-	N	N	T*	R	V+	N	N	N	.	.	TBA221A	UA741DC	0	T0A2741P
T05-8/1M	T	E-	E+	V-M	T*	R	V+	N	.	.	.	.	.	.	.	.	TBA221	UA741HC	0	T0A2741V
FLP-10/3C	N	T	E-	E+	V-	T*	R	V+	F	N	.	.	.	.	.	.	LM741F	UA741FM	0	T0A2741WF
DIL-14/1C	N	N	T	E-	E+	V-	N	N	T*	R	V+	F	N	N	.	.	TBA221A	UA741DC	0	T0A2741WP
T05-8/1M	T	E-	E+	V-	T*	R	V+	F	.	.	.	.	.	.	.	.	TBB0748	UA748HC	0	T0A2741WV
T05-10/1M	R1	V+1	E-1	E+1	V-	E+2	E-2	V+2	R2	N	.	.	.	.	.	.	TBB0747	UA747HC	0	T0A2747AV
T05-8/1M	R1	E-1	E+1	V-	E+2	E-2	R2	V+	.	.	.	.	.	.	.	.	TBB1458	MC1458	0	T0A2747BV
DIL-14/1C	E-1	E+1	T1	V-	T2	E+2	E-2	T*2	V+2	R2	N	R1	V+	T*1	.	.	TBB0747A	UA747DC	0	T0A2747J
DIL-14/1P	N	N	TF	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	SN72748J	UA748DC	0	T0A2748E
FLP-10/3C	N	TF	E-	E+	V-	T*	R	V+	F*	N	.	.	.	.	.	.	SN72748FA	UA748FM	0	T0A2748F
DIL-14/1C	N	N	TF	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	SN72748J	UA748DC	0	T0A2748J
DIL-14/1P	N	N	TF	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	SN72748J	UA748DC	0	T0A2748P
T05-8/1M	TF	E-	E+	V-M	T*	R	V+	F*	.	.	.	.	.	.	.	.	TBB0748	UA748HC	0	T0A2748V
DIL-14/1P	ø2	R	F2	F*2	E-2	E+2	V-	E+1	E-1	F*1	F1	R1	ø1	V+	.	.	RC1437DC	MC1437L	0	T0A2809E
DIL-14/1C	ø2	R	F2	F*2	E-2	E+2	V-	E+1	E-1	F*1	F1	R1	ø1	V+	.	.	RC1437DC	MC1437L	0	T0A2809J
DIL-14/1P	N	N	F*	E-	E+	V-	N	N	ø	R	V+	F	N	N	.	.	.	709BE	0	T0A3709E
FLP-10/3C	N	F*	E-	E+	V-	ø	R	V+	F	N	.	.	.	.	.	.	.	709BH	0	T0A3709F
DIL-14/1C	N	N	F*	E-	E+	V-	N	N	ø	R	V+	F	N	N	.	.	.	709BL	0	T0A3709J
DIL-14/1P	N	N	F*	E-	E+	V-	N	N	ø	R	V+	F	N	N	.	.	.	709BL	0	T0A3709P
T05-8/1M	F*	E-	E+	V-M	ø	R	V+	F	.	.	.	.	.	.	.	.	.	709BE	0	T0A3709V
DIL-14/1P	N	N	T	E-	E+	V-	N	N	T*	R	V+	N	N	N	.	.	.	MC1556L	0	T0A3741E
FLP-10/3C	N	T	E-	E+	V-	T*	R	V+	N	N	.	.	.	.	.	.	.	LM143F	0	T0A3741F
DIL-14/1C	N	N	T	E-	E+	V-	N	N	T*	R	V+	N	N	N	.	.	.	MC1556L	0	T0A3741J
DIL-14/1P	N	N	T	E-	E+	V-	N	N	T*	R	V+	N	N	N	.	.	.	MC1556L	0	T0A3741P
T05-8/1M	T	E-	E+	V-M	T*	R	V+	N	.	.	.	.	.	.	.	.	S5556T	MC1556G	0	T0A3741V
DIL-14/1P	N	N	TF	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	.	UA748ADM	0	T0A3748E
FLP-10/3C	N	TF	E-	E+	V-	T*	R	V+	F*	N	.	.	.	.	.	.	.	UA748AFM	0	T0A3748F
DIL-14/1C	N	N	TF	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	.	UA748ADM	0	T0A3748J
T05-8/1M	TF	E-	E+	V-M	T*	R	V+	F*	.	.	.	.	.	.	.	.	.	UA748AHM	0	T0A3748V
DIL-14/1P	N	N	F*	E-	E+	V-	N	N	ø	R	V+	F	N	N	.	.	LM709AJ	UA709ADM	0	T0A4709E
FLP-10/3C	N	F*	E-	E+	V-	ø	R	V+	F	N	.	.	.	.	.	.	SN52709AFA	UA709AFM	0	T0A4709F
DIL-14/1C	N	N	F*	E-	E+	V-	N	N	ø	R	V+	F	N	N	.	.	LM709AJ	UA709ADM	0	T0A4709J
DIL-14/1P	N	N	F*	E-	E+	V-	N	N	ø	R	V+	F	N	N	.	.	LM709AJ	UA709ADM	0	T0A4709P
T05-8/1M	F*	E-	E+	V-M	ø	R	V+	F	.	.	.	.	.	.	.	.	MC1709AG	UA709AHM	0	T0A4709V
DIL-14/1P	N	N	T	E-	E+	V-	N	N	T*	R	V+	N	N	N	.	.	.	MC1556L	0	T0A7741E
FLP-10/3C	N	T	E-	E+	V-	T*	R	V+	N	N	.	.	.	.	.	.	.	LM143F	0	T0A7741F
DIL-14/1C	N	N	T	E-	E+	V-	N	N	T*	R	V+	N	N	N	.	.	.	MC1556L	0	T0A7741J
DIL-14/1P	N	N	T	E-	E+	V-	N	N	T*	R	V+	N	N	N	.	.	.	MC1556L	0	T0A7741P
T05-8/1M	T	E-	E+	V-M	T*	R	V+	N	.	.	.	.	.	.	.	.	.	MC1556G	0	T0A7741V
T05-10/1M	R1	V+	E-1	E+1	V-	E+2	E-2	V+2	R2	N	.	.	.	.	.	.	TBC0747	UA747AHM	0	T0A7747AV
T05-8/1M	R1	E-1	E+1	V-	E+2	E-2	R2	V+	.	.	.	.	.	.	.	.	.	UA798HM	0	T0A7747BV
DIL-14/1P	N	N	TF	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	UA101AD	LM101AJ14	0	T0A7748E
FLP-10/3C	N	TF	E-	E+	V-	T*	R	V+	F*	N	.	.	.	.	.	.	SFC2101APM	LM101AF	0	T0A7748F
DIL-14/1C	N	N	TF	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	UA101AD	LM101AJ14	0	T0A7748J
T05-8/1M	TF	E-	E+	V-M	T*	R	V+	F*	.	.	.	.	.	.	.	.	SFC2101A	LM101AH	0	T0A7748V
DIL-14/1P	N	N	T	E-	E+	V-	N	N	T*	R	V+	N	N	N	.	.	.	T0A7741E	0	T0A8741E
FLP-10/3C	N	T	E-	E+	V-	T*	R	V+	N	N	.	.	.	.	.	.	.	T0A7741F	0	T0A8741F
DIL-14/1C	N	N	T	E-	E+	V-	N	N	T*	R	V+	N	N	N	.	.	.	T0A7741J	0	T0A8741J
DIL-14/1P	N	N	T	E-	E+	V-	N	N	T*	R	V+	N	N	N	.	.	.	T0A7741P	0	T0A8741P
T05-8/1M	T	E-	E+	V-M	T*	R	V+	N	.	.	.	.	.	.	.	.	.	T0A7741V	0	T0A8741V
T05-10/1M	R1	V+1	E-1	E+1	V-	E+2	E-2	V+2	R2	N	.	.	.	.	.	.	TBB0747	UA747HC	0	T0A8747AV
T05-8/1M	R1	E-1	E+1	V-	E+2	E-2	R2	V+	.	.	.	.	.	.	.	.	.	UA798HM	0	T0A8747BV
DIL-14/1P	N	N	TF	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	UA201AD	LM201AJ14	0	T0A8748E
FLP-10/3C	N	TF	E-	E+	V-	T*	R	V+	F*	N	.	.	.	.	.	.	SFC2201APM	LM201AF	0	T0A8748F
DIL-14/1C	N	N	TF	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	UA201AD	LM201AJ14	0	T0A8748J
T05-8/1M	TF	E-	E+	V-M	T*	R	V+	F*	.	.	.	.	.	.	.	.	SFC2101A	LM201AH	0	T0A8748V
DIL-14/1P	N	E-1	E+1	V-	E+2	E-2	N	N	S2	R	V+	G	S1	N	.	.	.	.	0	TSC1225E
FLP-10/3C	E-1	E+1	V-	E+2	E-2	S2	R	V+	G	S1	.	.	.	.	.	.	.	.	0	TSC1225F
DIL-14/1C	N	E-1	E+1	V-	E+2	E-2	N	N	S2	R	V+	G	S1	N	.	.	.	.	0	TSC1225J
T05-10/1M	G	S1	E-1	E+1	V-M	E+2	E-2	S2	R	V+	.	.	.	.	.	.	.	.	0	TSC1225V

Appendix A

Explanatory notes to tabulations

The general layout plan of the information in the tables of this compendium should be immediately evident from the data tabulation explanatory chart set out overleaf.

Supporting Appendices with additional information are:

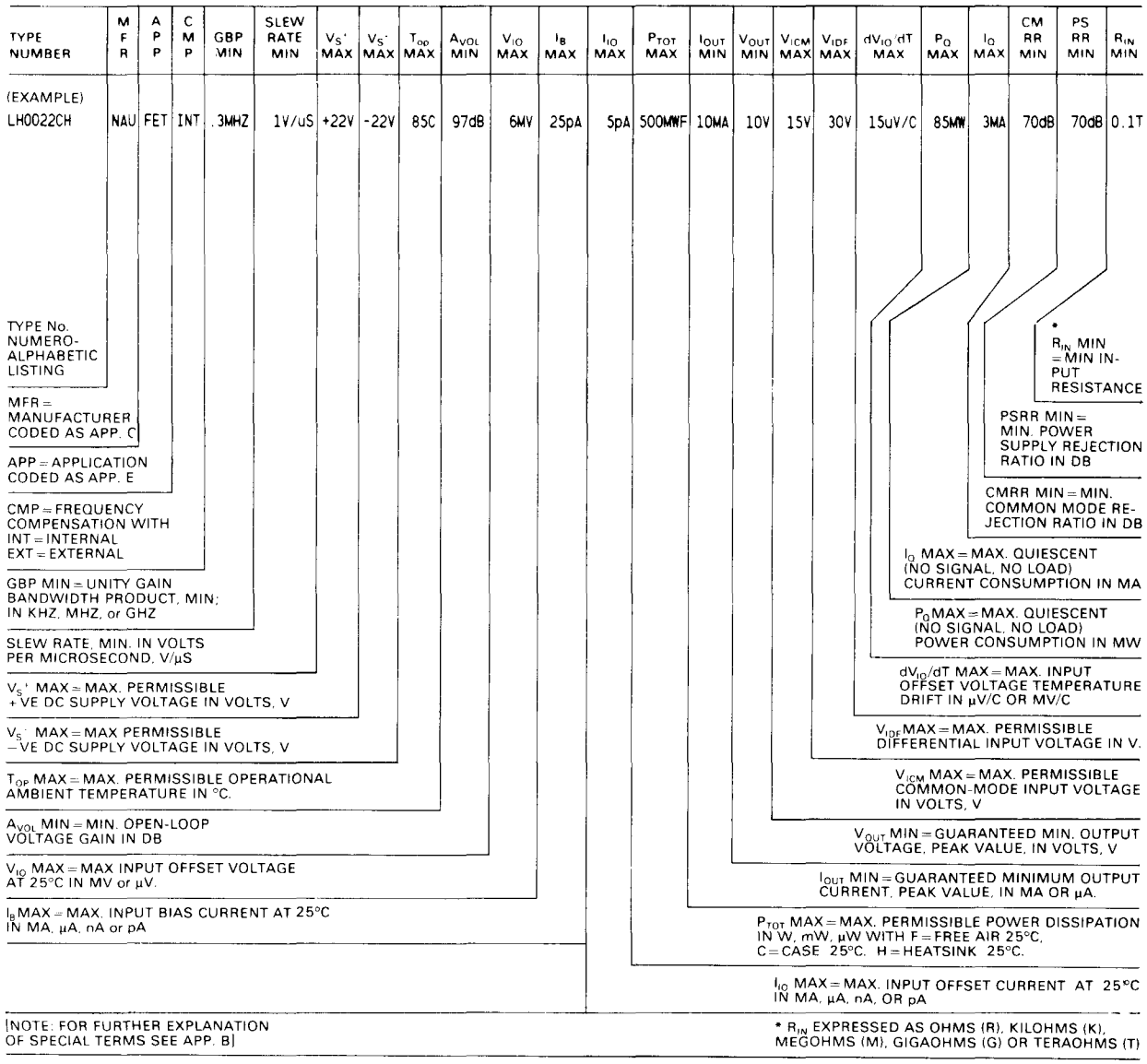
App. B Glossary of *Opamp Terms*
App. C Tabulation *Codes for Manufacturers*
App. D IC Manufacturers' *House Numbers*
App. E Tabulation *Codes for Applications*
App. F *Case Outline and Leadout Diagrams*
App. G Codes for *Leadout Connections*

Unit symbols used in the tables are:

A = amperes
C = ° centigrade
dB = decibels
G = gigaohms (megohms x 10^3)
GHZ = gigahertz (megahertz x 10^3)
K = kilohms
KHZ = kilohertz
M = megohms
MA = milliamperes, mA
MAX = maximum
MHZ = megahertz
MIN = minimum
MV = millivolts
MWC = milliwatts, case at 25C
MWF = milliwatts, free air at 25C
MWH = milliwatts, heat sink, 25C
NA = nanoamps (microamps x 10^{-3})
NV = nanovolts (microvolts x 10^{-3})
PA = picoamps (microamps x 10^{-12})
R = ohms
T = teraohms (megohms x 10^6)
V = volts
WC = watts, case at 25C
WF = watts, free air at 25C
WH = watts, heatsink, 25C
μA = microamps
μS = microseconds
μV = microvolts
μW = microwatts
μWF = microwatts, free air at 25C

Where a unit symbol appears in the middle of a value, it indicates the position of the decimal point, e.g. 3K3 = 3·3K.

Appendix A


TYPE NUMBER
MFR
APP
CMP
GBP MIN
SLEW RATE MIN
V_S^+ MAX
V_S^- MAX
T_{op} MAX
A_{VOL} MIN
V_{IO} MAX
I_B MAX
I_{IO} MAX
P_{TOT} MAX
I_{OUT} MIN
V_{OUT} MIN
V_{ICM} MAX
V_{IDF} MAX
dV_{IO}/dT MAX
P_Q MAX
I_Q MAX
CMRR MIN
PSRR MIN
R_{IN} MIN
(EXAMPLE)
LH0022CH
NAU
FET
INT
.3MHZ
1V/uS
+22V
-22V
85C
97dB
6MV
25pA
5pA
500MWF
10MA
10V
15V
30V
15uV/C
85MW
3MA
70dB
70dB
0.1T
TYPE No. NUMERO-ALPHABETIC LISTING
MFR = MANUFACTURER CODED AS APP. C
APP = APPLICATION CODED AS APP. E
CMP = FREQUENCY COMPENSATION WITH INT = INTERNAL EXT = EXTERNAL
GBP MIN = UNITY GAIN BANDWIDTH PRODUCT, MIN; IN KHZ, MHZ, or GHZ
SLEW RATE, MIN. IN VOLTS PER MICROSECOND, V/μS
V_S^+ MAX = MAX. PERMISSIBLE +VE DC SUPPLY VOLTAGE IN VOLTS, V
V_S^- MAX = MAX PERMISSIBLE −VE DC SUPPLY VOLTAGE IN VOLTS, V
T_{OP} MAX = MAX. PERMISSIBLE OPERATIONAL AMBIENT TEMPERATURE IN °C.
A_{VOL} MIN = MIN. OPEN-LOOP VOLTAGE GAIN IN DB
V_{IO} MAX = MAX INPUT OFFSET VOLTAGE AT 25°C IN MV or μV.
I_B MAX = MAX. INPUT BIAS CURRENT AT 25°C IN MA, μA, nA or pA
[NOTE: FOR FURTHER EXPLANATION OF SPECIAL TERMS SEE APP. B]
I_{IO} MAX = MAX. INPUT OFFSET CURRENT AT 25°C IN MA, μA, nA, OR pA
P_{TOT} MAX = MAX. PERMISSIBLE POWER DISSIPATION IN W, mW, μW WITH F = FREE AIR 25°C, C = CASE 25°C. H = HEATSINK 25°C.
I_{OUT} MIN = GUARANTEED MINIMUM OUTPUT CURRENT, PEAK VALUE, IN MA OR μA.
V_{OUT} MIN = GUARANTEED MIN. OUTPUT VOLTAGE, PEAK VALUE, IN VOLTS, V
V_{ICM} MAX = MAX. PERMISSIBLE COMMON-MODE INPUT VOLTAGE IN VOLTS, V
V_{IDF} MAX = MAX. PERMISSIBLE DIFFERENTIAL INPUT VOLTAGE IN V.
dV_{IO}/dT MAX = MAX. INPUT OFFSET VOLTAGE TEMPERATURE DRIFT IN μV/C OR MV/C
P_Q MAX = MAX. QUIESCENT (NO SIGNAL, NO LOAD) POWER CONSUMPTION IN MW
I_Q MAX = MAX. QUIESCENT (NO SIGNAL, NO LOAD) CURRENT CONSUMPTION IN MA
CMRR MIN = MIN. COMMON MODE REJECTION RATIO IN DB
PSRR MIN = MIN. POWER SUPPLY REJECTION RATIO IN DB
* R_{IN} MIN = MIN INPUT RESISTANCE
* R_{IN} EXPRESSED AS OHMS (R), KILOHMS (K), MEGOHMS (M), GIGAOHMS (G) OR TERAOHMS (T)

LEFT HAND PAGE

For detailed explanations of column heading notations, see App. A.

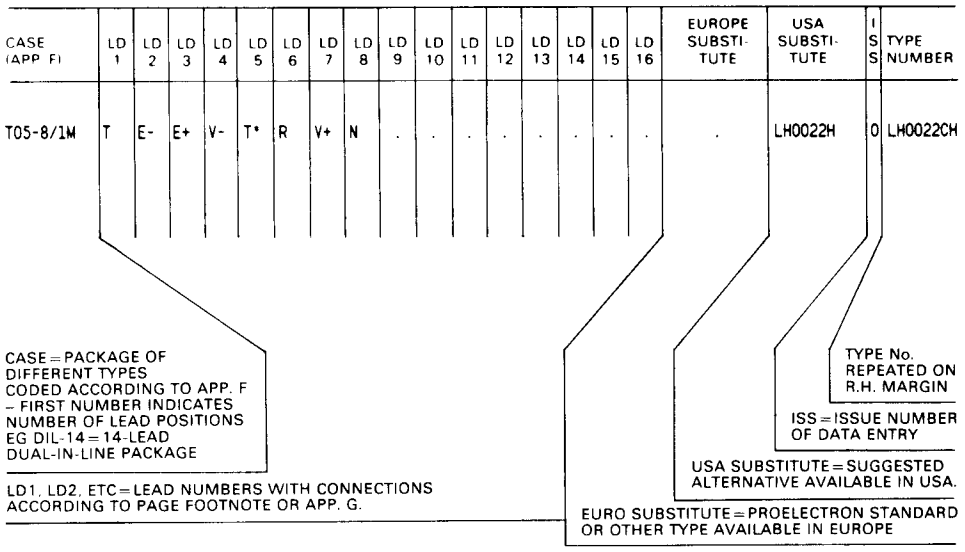
Also for ready references the more important abbreviations used in the column headings are listed below:

APP = application (codes at APP.E.)
CMRR = common mode rejection ratio
CMP = compensation (frequency)
dV_{IO}/dT = input offset voltage temperature drift
GBP = gain bandwidth product
I_B = input bias current
I_{IO} = input bias offset current
I_Q = quiescent supply current
MFR = manufacturer (codes at App.C.)
P_Q = quiescent power consumer
PSRR = power supply rejection ratio
V_{ICM} = common mode input voltage rating
V_{IDF} = differential input voltage rating
V_{IO} = input offset voltage
V_S = dc supply voltage

RIGHT HAND PAGE

Lead out coding summary (details at APP.G.) for different cases (APP.F.)

A = gain adjust
B = bias adjust
C = case
E− = inverting input
E+ = non-inverting input
F,F* = input frequency compensation
G = ground
J = high level input
K = output, open collector
L = output, open emitter
M = metal case
N = not connected
Q = special terminal
R,R* = outputs
S = strobe
T,T* = offset balance
V+ = +ve dc supply
V− = −ve dc supply
W = guard ring
X = blank position, no lead
++ = +ve supplementary dc supply
−− = −ve supplementary dc supply
ϕ,ϕ* = output frequency compensation



Appendix C
Tabulation Codes for Manufacturers

ADU **Advanced Micro Devices Inc.,**
901 Thompson Pl., Sunnyvale, CA 94086, USA

ANG **Analog Devices Ltd,**
Central Ave., East Molesey, KT8 9BR, Surrey, UK

ANU **Analog Devices Inc.,**
P.O. Box 280, Norwood, Mass., 02062

BLG **Bell & Howell Ltd,**
Lennox Road, Basingstoke, Hants, UK

BLU **Bell & Howell** (Control Products Divison),
706 Bostwick Ave, Bridgeport, Conn. 06605, USA

BUG **Burr-Brown International Ltd,**
17 Exchange Rd, Watford, WQD1 7EB, Herts., UK

BUU **Burr-Brown Research Corp.,**
P.O. Box 11400, Tucson, AZ. 85734, USA

CMG **Computing Techniques Ltd,**
Brookers Rd, Billingshurst, Sussex, RH14 9RZ, UK

DAG **Datel UK Ltd,**
Stephenson Close, Portway Ind. Estate, Andover, Hants, UK

DAU **Datel Systems Inc.,**
1020 Turnpike St., Canton, MA 02021, USA

FAG **Fairchild Camera & Instrument (UK) Ltd,**
230 High St., Potters Bar, Herts., UK

FAU **Fairchild Semiconductor**
464 Ellis St., Mountain View, CA 94042, USA

FEG **Ferranti Ltd,** (Electronic Department),
Gem Mill, Chadderton, Oldham, Lancs., OL9 8NP, UK

FUJ **Fujitsu Ltd,**
1015 Kamikodanaka, Kawasaki, Japan

HAG **Harris Semiconductor (Memec) Ltd,**
The Firs, Whitchurch, Nr. Aylesbury, Bucks., HP22 4JU, UK

HAU **Harris Semiconductor**
P.O. Box 883, Melbourne, FL, 32901, USA

HIJ **Hitachi Ltd** (Semiconductor and IC Div.),
1450 Josuihonimachi, Kodaira City, Tokyo, Japan

ING **Intersil Inc.,**
8 Tessa Rd, Richfield Trading Estate, Reading, Berks., UK

INU **Intersil Inc.,**
10900 N. Tantau Ave, Cupertino, CA, 95014, USA

ITG **ITT Semiconductors**
Maidstone Rd, Foots Cray, Sidcup, Kent, DA14 5HT, UK

ITU **ITT Semiconductors**
74 Commerce Way, Woburn, MA, 01801, USA

MNG **Mitsubishi Shoji Kaisha Ltd,**
Bow Bells House, Bread St., London, EC4, UK

MNJ **Mitsubishi Electric Corp.,**
2–12 Marunouchi, Chiyoda-ku, Tokyo, Japan

MTG **Motorola Ltd** (Semiconductor Products Div.),
York House, Empire Way, Wembley, Middlesex, HA9 0PR, UK

MTU **Motorola Semiconductor Products Inc.,**
5005 E. McDowell Road, Phoenix, AZ, 85008, USA

MUG **Mullard Ltd,**
Mullard House, Torrington Place, London, WC1E 7HD, UK

NAG **National Semiconductor (UK) Ltd,**
Harpur Centre, Bedford, MK40 3LF, UK

NAU **National Semiconductor Corp.,**
2900 Semiconductor Drive, Santa Clara, CA, 95051, USA

NIJ **Nippon Electric Co. Ltd,**
1753 Shimonumabe, Nakahara-ku, Kawasaki, Japan

OAU **Opamp Labs Inc.,**
1033 N. Sycamore Ave., Los Angeles, CA 90038, USA

OBS Obsolete – no longer commercially available.

OTU **Optical Electronics Inc.,**
P.O. Box 11140, Tucson, AZ, 85734, USA

PLG **Plessey Semiconductors,**
Cheney Manor, Swindon, Wilts., SN2 2QW, UK

PRG **Precision Monolithics** (Bourns Trimpot Ltd)
17/27 High St., Hounslow, Middlesex, UK

PRU **Precision Monolithics (Bourns) Inc.,**
1500 Space Park Drive, Santa Clara, CA, 95050, USA

RAG **Raytheon Semiconductor**
The Pinnacles, Harlow, Essex, CM19 5BB, UK

RAU **Raytheon Semiconductor,**
350 Ellis Street, Mountain View, CA, 94042, USA

RCG **RCA (Great Britain) Ltd,**
Lincoln Way, Windmill Road, Sunbury-on-Thames, Middlesex, UK

RCU **RCA Solid State Division**
Route 202, Somerville, NJ, 08876, USA

SAJ **Sanken Electric Co. Ltd,**
1-22-8 Nishi-Ikebukuro, Toshima-Ku, Tokyo, Japan

SGG	**SGS-ATES (UK) Ltd,** Planar House, Walton Street, Aylesbury, Bucks., UK
SGI	**SGS-ATES Componenti Spa,** Via Olivetti, 2 Agrate Brianza, 20041, Milan, Italy
SHG	**Shindengen Hyokuto Boeki Haisha Ltd,** St. Alphage House, Fore St., London, EC2Y 5DA, UK
SHJ	**Shindengen Electric Mfg Co., Ltd,** New Ohtemachi Bldng, 2–1, 2-chome, Ohtemachi, Chiyoda-ku, Tokyo, Japan
SIG	**Siemens Ltd,** Great West Road, Brentford, Middlesex, TW8 9DG, UK
SIW	**Siemens Aktiengesellschaft,** Richard-Strauss-Strasse 76, D-8000 Munchen 2, Postfach 202109, W. Germany
SJG	**Signetics International Corporation** Yeoman House, 63 Croydon Rd, London, SE20, UK
SJU	**Signetics Corp.,** 811 East Arques Ave, Sunnydale, CA. 94086, USA
SKU	**Silicon General Inc.,** 7382 Bolsa Avenue, Westminster, CA, 92683, USA
SLG	**Siliconix Ltd,** 30A High St., Thatcham, Newbury, Berks., RG13 4JG, UK
SLU	**Siliconix Incorporated,** 2201 Laurelwood Road, Santa Clara, CA, 95054, USA
SOJ	**Sony Semiconductor Corp.,** 14–1, Asa hi-sho 4, Atsuigi-shi, Kanagawa-ken, 243, Japan
SPG	**Sprague Electric (UK) Ltd,** 159 High St., Yiewsley, W. Drayton, Middlesex, UB7 7RY, UK
SPU	**Sprague Electric Company** (Semiconductor Div.), 115 Northeast Cutoff, Worcester, MA, 01606, USA
TDG	**Teledyne Semiconductor,** Heathrow House, Bath Road, Cranford, Hounslow, Middlesex, TW5 9QP, UK
TDU	**Teledyne (Amelco) Semiconductor,** 1300 Terra Bella Ave, Mountain View, CA, 94032, USA
TEB	**Teledyne-Philbrick,** Heathrow House, Bath Road, Cranford, Hounslow, Middlesex, TW5 9QP, UK
TEU	**Teledyne-Philbrick,** Allied Drive at Route 128, Dedham, MA, 02026, USA
TGG	**Texas Instruments Ltd,** Manton Lane, Bedford, UK
TGU	**Texas Instruments Inc.** (Components Group), P.O. Box 5012, Dallas, Texas, 75222, USA
THF	**Thomson-CSF (Sescosem),** 50 Rue Jean Pierre Timbaud, BP 120, 92403, Courbevoie, France
THG	**Thomson-CSF (UK) Ltd,** Ringway House, Bell Rd, Daneshill, Basingstoke, Hants., RG24 0QG, UK.
TKJ	**Tokyo Sanyo Electric Co. Ltd** (Semiconductor Div.), Oizumachi, Oragun, Gumma, Japan
TOG	**Toshiba (UK) Ltd,** Toshiba House, Great South West Rd, Feltham, Middlesex, UK
TOJ	**Toshiba (Tokyo Shibaura) Electric Co.,** 2–1, 5-chome, Ginza Chuo-ku, Tokyo, Japan
TRU	**Transitron Electronic Corp.,** 168 Albion St., Wakefield, MA, 01881, USA
ZEU	**Zeltex Inc.,** 940 Detroit Ave, Concord, CA, 94518, USA

Appendix D
IC Manufacturers' House Numbers

(General Note: Manufacturers often adopt their own 'in-house' serial numbering for their ICs. Listed below are the initial letters of numerical series used by different manufacturers.)

AD	Analog Devices
ADO	Analog Devices
AM	Advanced Micro Devices; Datel
AMD	Advanced Micro Devices
AMLM	Advanced Micro Devices
AMSSS	Advanced Micro Devices
AMU	Advanced Micro Devices
C	Bell & Howell
CA	RCA
CIA	Teledyne-Philbrick
CMP	Precision Monolithics
CN	Ferranti
DA	Teledyne-Philbrick
EP	Teledyne-Philbrick
ESL	Teledyne-Philbrick
FSL	Teledyne-Philbrick
FSS	Ferranti
HA	Harris
HEPC	Motorola
ICH	Intersil
ICL	Intersil
JM	Fairchild
JSF	Thomson-CSF
L	Analog Devices; SGS-ATES
LA	Teledyne-Philbrick
LF	National Semiconductor
LH	National Semiconductor
LM	National Semiconductor
M	Mitsubishi
MC	Motorola Semiconductors
MCC	Motorola Semiconductors
MCCF	Motorola Semiconductors
MCE	Motorola Semiconductors
MCH	Motorola Semiconductors
MIC	ITT Semiconductors
MLF	Motorola; Teledyne-Philbrick
MLM	Motorola Semiconductors
MLMC	Motorola Semiconductors
MONO-OP	Precision Monolithics
N	Signetics; Mullard
NC	General Instruments (obs.)
NE	Signetics; Mullard
NH	National Semiconductor
OP	Precision Monolithics
P	Teledyne-Philbrick
PF	Teledyne-Philbrick
PG	General Instruments (obs.)
PP	Teledyne-Philbrick
RA	Radiation (now Harris)
RC	Raytheon
RL	Raytheon
RM	Raytheon
RSN	Raytheon
RV	Raytheon
S	Signetics
SA	Teledyne-Philbrick
SE	Signetics; Mullard
SFC	Thomson-CSF
SG	Silicon General
SH	Fairchild
SK	RCA
SL	Plessey: Teledyne-Philbrick
SN	Texas Instruments
SP	Teledyne-Philbrick
SQ	Teledyne-Philbrick
SSS	Precision Monolithics
SU	Signetics; Mullard
T	Teledyne-Philbrick Transitron
TA	AEG-Telefunken
TAA	Proelectron Standard
TBA	Proelectron Standard
TBB	Proelectron Standard
TBC	Proelectron Standard
TBE	Proelectron Standard
TCA	Proelectron Standard
TDA	Proelectron Standard
TDB	Proelectron Standard
TDC	Proelectron Standard
TDE	Proelectron Standard
TL	AEG-Telefunken
TOA	Transitron
TSC	Transitron
U	Fairchild
ULN	Sprague
ULS	Sprague
USL	Teledyne-Philbrick
ZA	Zeltex
ZEL	Zeltex
ZLD	Ferranti
ZN	Ferranti
μA	Fairchild

Appendix E
Tabulation Codes for Applications

BDO	Balanced differential-output amplifier
CDA	Current-difference amplifier
CHP	Chopper-stabilized amplifier
CPR	DC comparator
DBD	Dual balanced differential-output amplifier
DCP	Dual Comparator
DFE	Dual fet-input opamp
DGK	Dual general purpose opamp
DGU	Dual general-purpose uncompensated opamp
DHS	Dual high-slew-rate opamp
DLN	Dual low-noise opamp
DPI	Dual precision instrumentation amplifier
DPR	Dual programmable opamp
DSB	Dual super-beta opamp
FET	Fet-input opamp
GPK	General-purpose, internally-compensated, opamp
GPU	General-purpose, uncompensated, opamp
HCO	High current output opamp
HIR	High input resistance opamp
HPO	High power output opamp
HSR	High slew rate opamp
HVO	High voltage output opamp
LBC	Low input bias current opamp
LCD	Low input offset current drift opamp
LNA	Low noise opamp
LOC	Low input offset current opamp
LOV	Low input offset voltage opamp
LQP	Low quiescent power opamp
LVD	Low input offset voltage drift opamp
MWB	Medium-wideband opamp
OTA	Operational transconductance amplifier
PAA	Parametric amplifier
PIA	Precision instrumentation amplifier
PRA	Programmable opamp
QCD	Quad current-difference amplifier
QCP	Quad comparator
QFE	Quad fet-input opamp
QGK	Quad general-purpose, internally-compensated, opamp
QGU	Quad general-purpose, uncompensated, opamp
QLQ	Quad low-quiescent-power opamp
QPI	Quad precision instrumentation amplifier
QPR	Quad programmable opamp
QSB	Quad super-beta opamp
SBA	Super-beta opamp
TCP	Triple comparator
TFE	Triple fet-input opamp
TGK	Triple general-purpose, internally compensated, opamp
TGU	Triple general-purpose, uncompensated, opamp
TLN	Triple low-noise opamp
TLP	Triple low-quiescent-power opamp
TOT	Triple operational transconductance amplifier
TPI	Triple precision instrumentation amplifier
TPR	Triple programmable opamp
TSB	Triple super-beta opamp
VFA	Voltage-follower amplifier
WBA	Wide-band opamp
XHG	Extra-high-gain opamp
XLP	Extra-low quiescent power opamp
XSR	Extra-high slew rate opamp
XWB	Extra-wide-band opamp

Appendix G
Codes for Leadout Connections

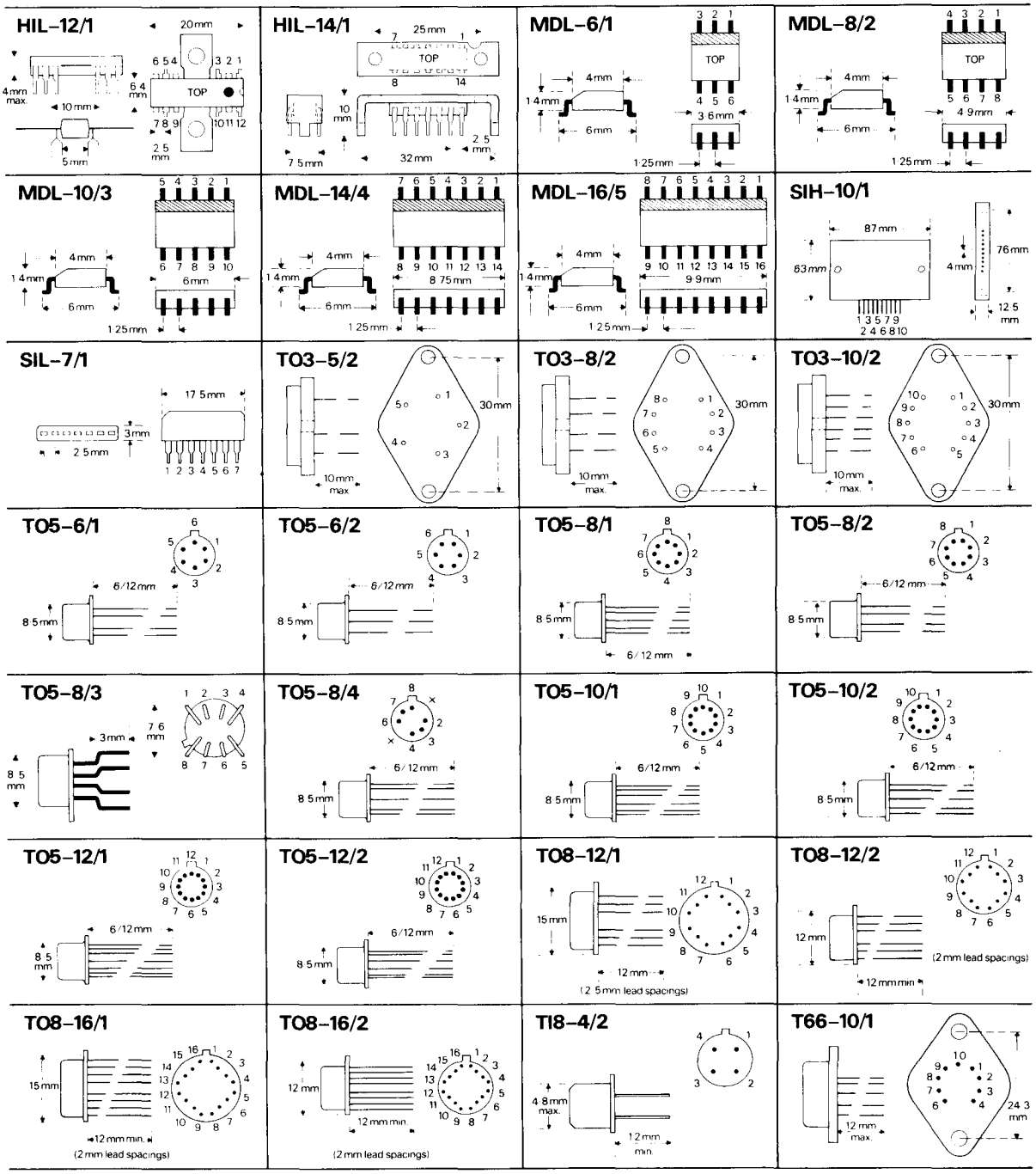
I: Connection Codes in Serial Order

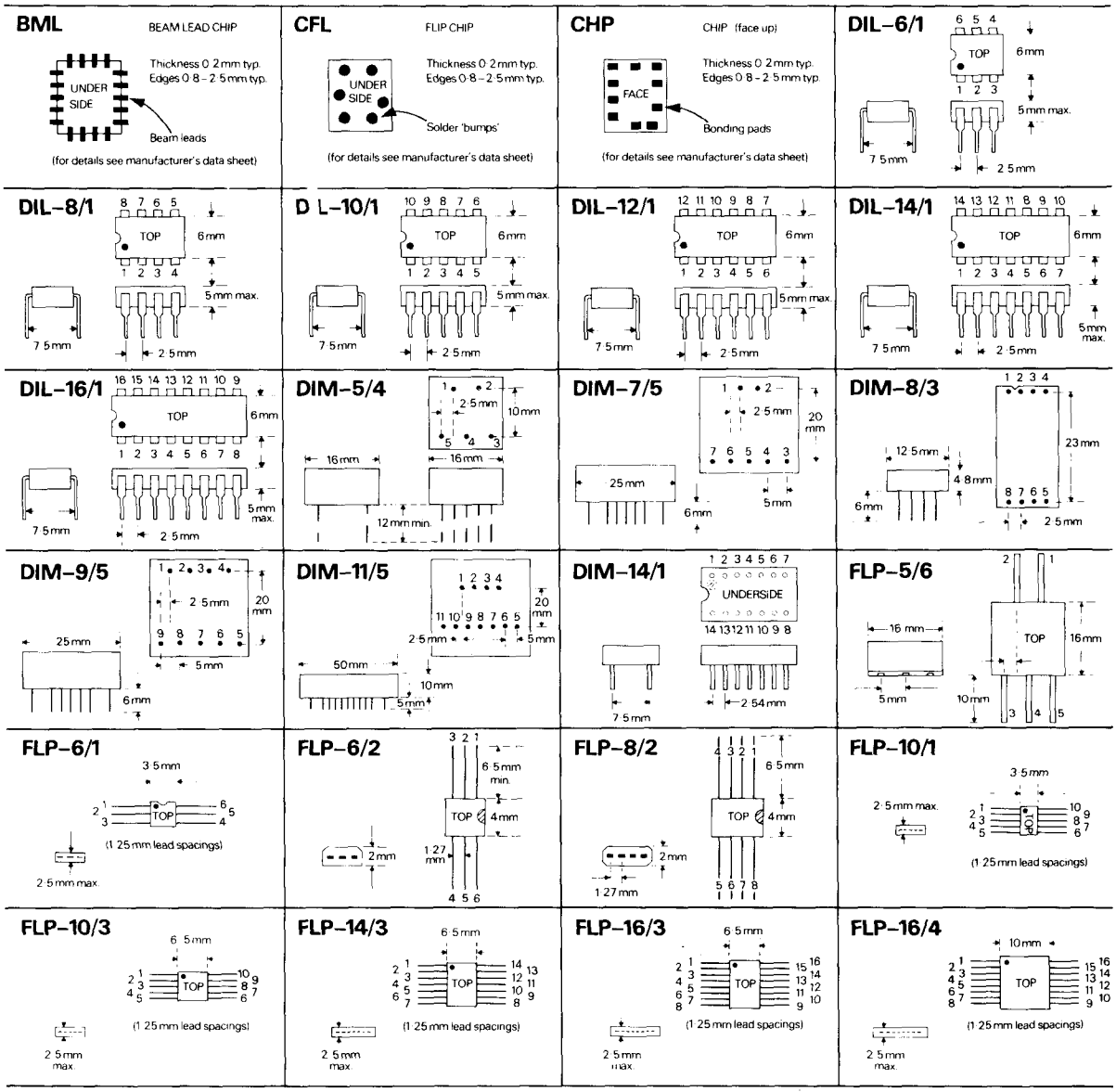
A = Gain adjust, 1
A* = Gain adjust, 2
B = Bias adjust or set
C = Case, package, screen
E+ = Input, non-inverting, low-level
E− = Input, inverting, low-level
F = Input frequency compensation, 1
F* = Input frequency compensation, 2
G = Ground, common, earth, zero volts
J+ = Input, non-inverting, high-level
J− = Input, inverting, high-level
K = Output, open collector
L = Output, open emitter
M = Metal casing
N = Not connected, i.e. isolated lead
Q = Special terminal (consult manufacturer's data)
R = Output, 1
R* = Output, 2
S = Strobe
T = Offset balance, trim or null, 1
T* = Offset balance, trim or null, 2
V+ = +ve dc supply
V− = −ve dc supply
W = Guard ring
X = Blank position, lead omitted
++ = +ve supplementary dc supply
−− = −ve supplementary dc supply
φ = Output frequency compensation, 1
φ* = Output frequency compensation, 2

II: Lead Assignments in Alphabetical Order

Balance, offset, 1 = T
Balance, offset, 2 = T*
Bias adjust = B
Blank position, without lead = X
Case = C
Compensation, input, 1 = F
Compensation, input, 2 = F*
Compensation, output, 1 = φ
Compensation, output, 2 = φ*
DC supply, +ve = V+
DC supply, −ve = V−
Frequency compensation, input, 1 = F
Frequency compensation, input, 2 = F*
Frequency compensation, output, 1 = φ
Frequency compensation, output, 2 = φ*
Gain adjust, 1 = A
Gain adjust, 2 = A*
Ground = G
Guard ring = W
Input, inverting, high-level = J
Input, non-inverting, high-level = J+
Input, inverting, low-level = E−
Input, non-inverting, low-level = E+
Input offset voltage, adjust, 1 = T
Input offset voltage, adjust, 2 = T*
Lead omitted, blank position = X
Lead in position but not connected = N
Metal case = M
Not connected, but lead in position = N
Null, offset, 1 = T
Null, offset, 2 = T*
Offset voltage adjust, 1 = T
Offset voltage adjust, 2 = T*
Output, 1 = R
Output, 2 = R*
Output, open-collector = K
Output, open-emitter = L
Package = C
Special purpose terminal (data sheet to be consulted) = Q
Strobe = S
Supply, dc, +ve = V+
Supply, dc, −ve = V−
Supply, dc, supplementary, +ve = ++
Supply, dc, supplementary, −ve = −−
Trim (offset voltage), 1 = T
Trim (offset voltage), 2 = T*

Appendix F


HIL-12/1
HIL-14/1
MDL-6/1
MDL-8/2
MDL-10/3
MDL-14/4
MDL-16/5
SIH-10/1
SIL-7/1
TO3-5/2
TO3-8/2
TO3-10/2
TO5-6/1
TO5-6/2
TO5-8/1
TO5-8/2
TO5-8/3
TO5-8/4
TO5-10/1
TO5-10/2
TO5-12/1
TO5-12/2
TO8-12/1
TO8-12/2
TO8-16/1
TO8-16/2
TI8-4/2
T66-10/1
TOP
(2 mm lead spacings)
(2.5 mm lead spacings)


BML
BEAM LEAD CHIP
Thickness 0·2mm typ.
Edges 0·8 - 2·5mm typ.
UNDER SIDE
Beam leads
(for details see manufacturer's data sheet)
CFL
FLIP CHIP
Thickness 0·2mm typ.
Edges 0·8 - 2·5mm typ.
UNDER SIDE
Solder 'bumps'
(for details see manufacturer's data sheet)
CHP
CHIP (face up)
Thickness 0·2mm typ.
Edges 0·8 - 2·5mm typ.
FACE
Bonding pads
(for details see manufacturer's data sheet)
DIL-6/1
DIL-8/1
DIL-10/1
DIL-12/1
DIL-14/1
DIL-16/1
DIM-5/4
DIM-7/5
DIM-8/3
DIM-9/5
DIM-11/5
DIM-14/1
FLP-5/6
FLP-6/1
FLP-6/2
FLP-8/2
FLP-10/1
FLP-10/3
FLP-14/3
FLP-16/3
FLP-16/4
TOP
UNDERSIDE
6mm
5mm max.
2·5mm
7·5mm
(1·25mm lead spacings)
2·5mm max.