

TYPE NUMBER	MFR	APP	CMP	GBP MIN	SLEW RATE MIN	V <sub>S+</sub> MAX	V <sub>S-</sub> MAX	T <sub>OD</sub> MAX	A <sub>VOL</sub> MIN	V <sub>IO</sub> MAX	I <sub>B</sub> MAX	I <sub>IO</sub> MAX	P <sub>ROT</sub> MAX	I <sub>OUT</sub> MIN	V <sub>OUT</sub> MIN	V <sub>ICM</sub> MAX	V <sub>IDF</sub> MAX	dV <sub>IO</sub> /dT MAX	P <sub>O</sub> MAX	I <sub>O</sub> MAX	CM RR MIN	PS RR MIN	R <sub>IN</sub> MIN
AML207H	ADU	GPK	INT	.	.	+22V	-22V	85C	94dB	2MV	75NA	10NA	500MWF	5MA	12V	15V	30V	15uV/C	.	3MA	80dB	80dB	1.5M
AML208AD	ADU	SBA	EXT	.	.	+20V	-20V	85C	98dB	0.5MV	2NA	0.2NA	500MWF	1MA	13V	15V	1V	5uV/C	.	6MA	96dB	96dB	30M
AML208AF	ADU	SBA	EXT	.	.	+20V	-20V	85C	98dB	0.5MV	2NA	0.2NA	500MWF	1MA	13V	15V	1V	5uV/C	.	6MA	96dB	96dB	30M
AML208AH	ADU	SBA	EXT	.	.	+20V	-20V	85C	98dB	0.5MV	2NA	0.2NA	500MWF	1MA	13V	15V	1V	5uV/C	.	6MA	96dB	96dB	30M
AML208D	ADU	SBA	EXT	.	.	+20V	-20V	85C	96dB	2MV	2NA	0.2NA	500MWF	1MA	13V	15V	1V	15uV/C	.	6MA	85dB	80dB	30M
AML208F	ADU	SBA	EXT	.	.	+20V	-20V	85C	96dB	2MV	2NA	0.2NA	500MWF	1MA	13V	15V	1V	15uV/C	.	6MA	85dB	80dB	30M
AML208H	ADU	SBA	EXT	.	.	+20V	-20V	85C	96dB	2MV	2NA	0.2NA	500MWF	1MA	13V	15V	1V	15uV/C	.	6MA	85dB	80dB	30M
AML210D	ADU	VFA	INT	.	15V/uS	+18V	-18V	85C	0dB	4MV	3NA	.	500MWF	1MA	10V	15V	15V	50uV/C	.	6MA	.	70dB	10G
AML210F	ADU	VFA	INT	.	15V/uS	+18V	-18V	85C	0dB	4MV	3NA	.	500MWF	1MA	10V	15V	15V	50uV/C	.	6MA	.	70dB	10G
AML210H	ADU	VFA	INT	.	15V/uS	+18V	-18V	85C	0dB	4MV	3NA	.	500MWF	1MA	10V	15V	15V	50uV/C	.	6MA	.	70dB	10G
AML211D	ADU	CPR	EXT	.	.	+18V	-18V	85C	100dB	3MV	100NA	10NA	500MWF	.	.	15V	30V	.	.	6MA	.	.	.
AML211H	ADU	CPR	EXT	.	.	+18V	-18V	85C	100dB	3MV	100NA	10NA	500MWF	.	.	15V	30V	.	.	6MA	.	.	.
AML212D	ADU	SBA	INT	.	.	+20V	-20V	85C	94dB	2MV	2NA	0.2NA	500MWF	1MA	13V	14V	14V	15uV/C	.	6MA	85dB	80dB	30M
AML212H	ADU	SBA	INT	.	.	+20V	-20V	85C	94dB	2MV	2NA	0.2NA	500MWF	1MA	13V	14V	14V	15uV/C	.	6MA	85dB	80dB	30M
AML212F	ADU	SBA	INT	.	.	+20V	-20V	85C	94dB	2MV	2NA	0.2NA	500MWF	1MA	13V	14V	14V	15uV/C	.	6MA	85dB	80dB	30M
AML216AD	ADU	LBC	INT	.	.	+20V	-20V	85C	92dB	3MV	50PA	15PA	500MWF	1MA	13V	15V	14V	.	.	6MA	80dB	80dB	2G
AML216AF	ADU	LBC	INT	.	.	+20V	-20V	85C	92dB	3MV	50PA	15PA	500MWF	1MA	13V	15V	14V	.	.	6MA	80dB	80dB	2G
AML216AH	ADU	LBC	INT	.	.	+20V	-20V	85C	92dB	3MV	50PA	15PA	500MWF	1MA	13V	15V	14V	.	.	6MA	80dB	80dB	2G
AML216D	ADU	LBC	INT	.	.	+20V	-20V	85C	86dB	10MV	150PA	50PA	500MWF	1MA	13V	15V	14V	.	.	8MA	80dB	80dB	300M
AML216F	ADU	LBC	INT	.	.	+20V	-20V	85C	86dB	10MV	150PA	50PA	500MWF	1MA	13V	15V	14V	.	.	8MA	80dB	80dB	300M
AML216H	ADU	LBC	INT	.	.	+20V	-20V	85C	86dB	10MV	150PA	50PA	500MWF	1MA	13V	15V	14V	.	.	8MA	80dB	80dB	300M
AML218D	ADU	XSR	INT	.	50V/uS	+20V	-20V	85C	94dB	4MV	250NA	50NA	500MWF	6MA	12V	15V	1V	.	.	8MA	80dB	70dB	1M
AML218F	ADU	XSR	INT	.	50V/uS	+20V	-20V	85C	94dB	4MV	250NA	50NA	500MWF	6MA	12V	15V	1V	.	.	8MA	80dB	70dB	1M
AML218H	ADU	XSR	INT	.	50V/uS	+20V	-20V	85C	94dB	4MV	250NA	50NA	500MWF	6MA	12V	15V	1V	.	.	8MA	80dB	70dB	1M
AML219D	ADU	QCP	EXT	.	.	+18V	-18V	85C	94dB	2MV	250NA	50NA	900MWF	6MA	.	18V	18V	.	.	2MA	.	.	.
AML219F	ADU	DCP	INT	.	.	+18V	-18V	85C	80dB	4MV	500NA	75NA	500MWF	.	.	15V	5V	.	.	12MA	.	.	.
AML219H	ADU	DCP	INT	.	.	+18V	-18V	85C	80dB	4MV	500NA	75NA	500MWF	.	.	15V	5V	.	.	12MA	.	.	.
AML224AD	ADU	QGK	INT	.	.	+16V	-16V	85C	94dB	3MV	80NA	15NA	900MWF	.	.	16V	16V	20uV/C	.	2MA	70dB	65dB	.
AML224D	ADU	QGK	INT	.	.	+16V	-16V	85C	94dB	5MV	150NA	30NA	900MWF	.	.	16V	16V	35uV/C	.	2MA	70dB	65dB	.
AML239AD	ADU	DCP	INT	.	.	+18V	-18V	85C	80dB	4MV	500NA	75NA	500MWF	.	.	15V	5V	.	.	12MA	.	.	.
AML239D	ADU	QCP	EXT	.	.	+18V	-18V	85C	88dB	5MV	250NA	50NA	900MWF	6MA	.	18V	18V	.	.	2MA	.	.	.
AML248D	ADU	QGK	INT	3MHZ	0.2V/uS	+18V	-18V	85C	88dB	6MV	200NA	50NA	900MWF	5MA	12V	18V	36V	.	.	1MA	70dB	77dB	800K
AML249D	ADU	QGK	INT	1MHZ	0.5V/uS	+18V	-18V	85C	88dB	6MV	200NA	50NA	900MWF	5MA	12V	18V	36V	.	.	1MA	70dB	77dB	800K
AML301AD	ADU	GPU	EXT	.	.	+18V	-18V	70C	88dB	7.5MV	250NA	50NA	500MWF	5MA	12V	15V	30V	30uV/C	.	3MA	70dB	70dB	500K
AML301AH	ADU	GPU	EXT	.	.	+18V	-18V	70C	88dB	7.5MV	250NA	50NA	500MWF	5MA	12V	15V	30V	30uV/C	.	3MA	70dB	70dB	500K
AML301AN	ADU	GPU	EXT	.	.	+18V	-18V	70C	88dB	7.5MV	250NA	50NA	500MWF	5MA	12V	15V	30V	30uV/C	.	3MA	70dB	70dB	500K
AML301D	ADU	GPU	EXT	.	.	+18V	-18V	70C	83dB	10MV	2uA	75uA	500MWF	5MA	12V	15V	30V	30uV/C	.	3MA	65dB	70dB	100K
AML301F	ADU	GPU	EXT	.	.	+18V	-18V	70C	83dB	10MV	2uA	75uA	500MWF	.	12V	15V	30V	30uV/C	.	3MA	65dB	70dB	100K
AML301H	ADU	GPU	EXT	.	.	+18V	-18V	70C	83dB	10MV	2uA	75uA	500MWF	.	12V	15V	30V	30uV/C	.	3MA	65dB	70dB	100K
AML302D	ADU	VFA	INT	.	.	+18V	-18V	85C	0dB	5MV	30NA	.	500MWF	1MA	10V	.	.	90uV/C	.	6MA	.	60dB	10G
AML302H	ADU	VFA	INT	.	.	+18V	-18V	70C	0dB	15MV	30NA	.	500MWF	1MA	10V	.	.	90uV/C	163MW	6MA	.	60dB	10G
AML306H	ADU	CPR	EXT	.	.	+15V	-15V	70C	84dB	5MV	25uA	5uA	600MWF	50MA	2.5V	.	.	20uV/C	.	.	70dB	70dB	0.5M
AML307D	ADU	GPK	INT	.	.	+18V	-18V	70C	84dB	7.5MV	250NA	50NA	500MWF	5MA	12V	15V	30V	30uV/C	.	.	70dB	70dB	0.5M
AML307H	ADU	GPK	INT	.	.	+18V	-18V	70C	84dB	7.5MV	250NA	50NA	500MWF	5MA	12V	15V	30V	30uV/C	.	.	70dB	70dB	0.5M
AML308AD	ADU	SBA	EXT	.	.	+18V	-18V	70C	98dB	0.5MV	7NA	1NA	500MWF	1MA	13V	15V	1V	5uV/C	.	6MA	96dB	96dB	10M
AML308AH	ADU	SBA	EXT	.	.	+18V	-18V	70C	98dB	0.5MV	7NA	1NA	500MWF	1MA	13V	15V	1V	5uV/C	.	6MA	96dB	96dB	10M
AML308AN	ADU	SBA	EXT	.	.	+18V	-18V	70C	98dB	0.5MV	7NA	1NA	500MWF	1MA	13V	15V	1V	5uV/C	.	6MA	96dB	96dB	10M
AML308D	ADU	SBA	EXT	.	.	+18V	-18V	70C	88dB	7.5MV	7NA	1NA	500MWF	1MA	13V	15V	1V	30uV/C	.	6MA	80dB	80dB	10M
AML308H	ADU	SBA	EXT	.	.	+18V	-18V	70C	88dB	7.5MV	7NA	1NA	500MWF	1MA	13V	15V	1V	30uV/C	.	6MA	80dB	80dB	10M
AML308N	ADU	SBA	EXT	.	.	+18V	-18V	70C	88dB	7.5MV	7NA	1NA	500MWF	1MA	13V	15V	1V	30uV/C	.	6MA	80dB	80dB	10M
AML310D	ADU	VFA	INT	.	15V/uS	+18V	-18V	70C	0dB	7.5MV	7NA	.	500MWF	1MA	10V	15V	15V	50uV/C	.	6MA	.	70dB	10G
AML310F	ADU	VFA	INT	.	15V/uS	+18V	-18V	70C	0dB	7.5MV	7NA	.	500MWF	1MA	10V	15V	15V	50uV/C	.	6MA	.	70dB	10G
AML310H	ADU	VFA	INT	.	15V/uS	+18V	-18V	70C	0dB	7.5MV	7NA	.	500MWF	1MA	10V	15V	15V	50uV/C	.	6MA	.	70dB	10G
AML310N	ADU	VFA	INT	.	15V/uS	+18V	-18V	70C	0dB	7.5MV	7NA	.	500MWF	1MA	10V	15V	15V	50uV/C	.	6MA	.	70dB	10G
AML311D	ADU	CPR	EXT	.	.	+18V	-18V	70C	100dB	7.5MV	250NA	50NA	500MWF	.	.	15V	30V	.	.	8MA	.	.	.
AML311H	ADU	CPR	EXT	.	.	+18V	-18V	70C	100dB	7.5MV	250NA	50NA	500MWF	.	.	15V	30V	.	.	8MA	.	.	.
AML312D	ADU	SBA	INT	.	.	+18V	-18V	70C	88dB	7.5MV	7NA	1NA	500MWF	1MA	13V	14V	14V	15uV/C	.	8MA	80dB	80dB	10M
AML312H	ADU	SBA	INT	.	.	+18V	-18V	70C	88dB	7.5MV	7NA	1NA	500MWF	1MA	13V	14V	14V	15uV/C	.	8MA	80dB	80dB	10M
AML316AD	ADU	LBC	INT	.	.	+20V	-20V	70C	92dB	3MV	50PA	15PA	500MWF	1MA	13V	15V	14V	.	.	6MA	80dB	80dB	2G

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)

$dV_{in}/dT$  = input offset voltage

temperature drift

GBP = gain bandwidth

product

$I_B$  = input bias current

$I_{off}$  = 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

$V_{diff}$  = differential input

voltage rating

$V_{in}$  = 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

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	J S S	TYPE NUMBER	
T05-8/1M	N	E-	E+	V-M	N	R	V+	N	.	.	.	.	.	.	.	.	SFC2207	LM207H	0	AMLM207H	
DIL-14/1C	N	F	N	E-	E+	N	V-	N	N	R	V+	F*	N	N	.	.	UA208AD	LM208AD	0	AMLM208AD	
FLP-10/3G	N	N	E-	E+	N	V-	N	V+	F*	F	.	.	.	.	.	.	SFC2208A	LM208AF	0	AMLM208AF	
T05-8/1M	F	E-	E+	V-M	N	R	V+	F*	.	.	.	.	.	.	.	.	SFC2208A	LM208AH	0	AMLM208AH	
DIL-14/1C	N	F	N	E-	E+	N	V-	N	N	R	V+	F*	N	N	.	.	UA208D	LM208D	0	AMLM208D	
FLP-10/3G	N	N	E-	E+	N	V-	R	V+	F*	F	.	.	.	.	.	.	SFC2208PT	LM208F	0	AMLM208F	
T05-8/1M	F	E-	E+	V-M	N	R	V+	F*	.	.	.	.	.	.	.	.	SFC2208	LM208H	0	AMLM208H	
DIL-14/1C	N	N	T	N	E+	V-	N	N	L	R	V+	T*	N	N	.	.	SN52110JA	LM210D	0	AMLM210D	
FLP-10/3C	N	T	N	E+	V-	L	R	V+	T*	N	.	.	.	.	.	.	SFC2210G	LM210F	0	AMLM210F	
T05-8/1M	T	N	E+	V-	L	R	V+	T*	.	.	.	.	.	.	.	.	MLM210G	LM210H	0	AMLM210H	
DIL-14/1C	N	G	E+	E-	N	V-	T	T*S	R	N	V+	N	N	N	.	.	SN52111J	LM211D	0	AMLM211D	
T05-8/1M	G	E+	E-	V-	T	T*S	R	V+	.	.	.	.	.	.	.	.	SFC2211	LM211H	0	AMLM211H	
DIL-14/1P	N	T	W	E-	E+	W*	V-	N	F	R	V+	T*	N	N	.	.	.	LM212D	0	AMLM212D	
T05-8/1M	T	E-	E+	V-	F	R	V+	T*	.	.	.	.	.	.	.	.	.	LM212H	0	AMLM212H	
FLP-10/3C	N	W	E-	E+	W*	V-	R	V+	T	T*	.	.	.	.	.	.	.	LM212F	0	AM212-F-FLP	
DIL-14/1C	N	T	W	E-	E+	W*	V-	N	F	R	V+	T*	N	N	.	.	MLM216AD	LM216AD	0	AMLM216AD	
FLP-10/3C	N	W	E-	E+	W*	V-	R	V+	T	T*	.	.	.	.	.	.	.	LM216AF	0	AMLM216AF	
T05-8/1M	T	E-	E+	V-	F	R	V+	T*	.	.	.	.	.	.	.	.	.	LM216AH	0	AMLM216AH	
DIL-14/1C	N	T	W	E-	E+	W*	V-	N	F	R	V+	T*	N	N	.	.	.	LM216D	0	AMLM216D	
FLP-10/3C	N	W	E-	E+	W*	V-	R	V+	T	T*	.	.	.	.	.	.	.	LM216F	0	AMLM216F	
T05-8/1M	T	E-	E+	V-	F	R	V+	T*	.	.	.	.	.	.	.	.	.	LM216H	0	AMLM216H	
DIL-14/1C	N	N	T*	F	E-	E+	V-	N	N	F*	R	V+	∅	N	N	.	SN52118JA	LM218D	0	AMLM218D	
FLP-10/3C	N	T*	F	E-	E+	V-	F*	R	V+	∅	N	.	.	.	.	.	.	LM218F	0	AMLM218F	
T05-8/1M	T*	F	E-	E+	V-	F*	R	V+	∅	.	.	.	.	.	.	.	.	TDB0118CM	LM218H	0	AMLM218H
DIL-14/1C	R2	R1	V+	E-1	E+1	E-2	E+2	E+3	E-3	E-4	E+4	G	R4	R3	.	.	TDE0119DP	LM219D	0	AMLM219D	
FLP-10/3C	R1	G1	E+1	E-1	V-	R2	G2	E+2	E-2	V+	.	.	.	.	.	.	.	LM219F	0	AMLM219F	
T05-10/1M	R1	G1	E+1	E-1	V-	R2	G2	E+2	E-2	V+	.	.	.	.	.	.	.	TDE0119CM	LM219H	0	AMLM219H
DIL-14/1C	R1	E-1	E+1	V+	E+2	E-2	R2	R3	E-3	E+3	G	E+4	E-4	R4	.	.	.	LM224AD	0	AMLM224AD	
DIL-14/1C	R1	E-1	E+1	V+	E+2	E-2	R2	R3	E-3	E+3	G	E+4	E-4	R4	.	.	.	LM224D	0	AMLM224D	
DIL-14/1C	N	N	G1	E+1	E-1	V-	R2	G2	E+2	E-2	V+	R1	N	N	.	.	.	MLM239AL	LM239AD	0	AMLM239AD
DIL-14/1C	R2	R1	V+	E-1	E+1	E-2	E+2	E+3	E-3	E-4	E+4	G	R4	R3	.	.	MLM239L	LM239D	0	AMLM239D	
DIL-14/1C	R1	E-1	E+1	V+	E+2	E-2	R2	R3	E-3	E+3	V-	E+4	E-4	R4	.	.	.	LM248D	0	AMLM248D	
DIL-14/1P	R1	E-1	E+1	V+	E+2	E-2	R2	R3	E-3	E+3	V-	E+4	E-4	R4	.	.	.	LM249D	0	AMLM249D	
DIL-14/1P	FT	E-	E+	V-	T*	R	V+	F*	.	.	.	.	.	.	.	.	.	TDA0301D	LM301AD	0	AMLM301AD
T05-8/1M	FT	E-	E+	V-M	T*	R	V+	F*	.	.	.	.	.	.	.	.	.	SFC2301AH	LM301AH	0	AMLM301AH
DIL-8/1P	FT	E-	E+	V-	T*	R	V+	F*	.	.	.	.	.	.	.	.	.	SFC2301ADC	LM301AN	0	AMLM301AN
DIL-14/1P	N	N	FT	E-	E+	V-	N	N	T*	R	V+	F*	N	N	.	.	.	LM301D	0	AMLM301D	
FLP-10/3C	N	FT	E-	E+	V-	T*	R	V+	F*	N	.	.	.	.	.	.	.	LM301F	0	AMLM301F	
T05-8/1M	FT	E-	E+	V-M	T*	R	V+	F*	.	.	.	.	.	.	.	.	.	SFC2301A	LM301H	0	AMLM301H
DIL-14/1C	N	N	T	N	E+	V-	N	N	L	R	V+	T*	N	N	.	.	.	LM302D	0	AMLM302D	
T05-8/1M	T	N	E+	V-	L	R	V+	T*	.	.	.	.	.	.	.	.	.	UA302C	LM302H	0	AMLM302H
T05-8/1M	G	E+	E-	V-M	S1	S2	R	V+	.	.	.	.	.	.	.	.	.	SN72306L	LM306H	0	AMLM306H
DIL-14/1P	N	N	N	E-	E+	V-	N	N	N	R	V+	N	N	N	.	.	.	SN72307JA	LM307D	0	AMLM307D
T05-8/1M	N	E-	E+	V-M	N	R	V+	N	.	.	.	.	.	.	.	.	.	SFC2307	LM307H	0	AMLM307H
DIL-14/1P	N	F	N	E-	E+	N	V-	N	N	R	V+	F*	N	N	.	.	.	SN72308AJA	LM308AD	0	AMLM308AD
T05-8/1M	F	E-	E+	V-M	N	R	V+	F*	.	.	.	.	.	.	.	.	.	SFC2308A	LM308AH	0	AMLM308AH
DIL-8/1P	F	E-	E+	V-	N	R	V+	F*	.	.	.	.	.	.	.	.	.	SFC2308AN	LM308AN	0	AMLM308AN
DIL-14/1P	N	F	N	E-	E+	N	V-	N	N	R	V+	F*	N	N	.	.	.	UA308D	LM308D	0	AMLM308D
T05-8/1M	F	E-	E+	V-M	N	R	V+	F*	.	.	.	.	.	.	.	.	.	SFC2308	LM308H	0	AMLM308H
DIL-8/1P	F	E-	E+	V-	N	R	V+	F*	.	.	.	.	.	.	.	.	.	SFC2308DC	LM308N	0	AMLM308N
DIL-14/1P	N	N	T	N	E+	V-	N	N	L	R	V+	T*	N	N	.	.	.	SFC2310EC	LM310D	0	AMLM310D
FLP-10/3C	N	T	N	E+	V-	L	R	V+	T*	N	.	.	.	.	.	.	.	SFC2310EC	LM310F	0	AMLM310F
T05-8/1M	T	N	E+	V-	L	R	V+	T*	.	.	.	.	.	.	.	.	.	SFC2310DC	LM310H	0	AMLM310H
DIL-8/1P	T	N	E+	V-	L	R	V+	T*	.	.	.	.	.	.	.	.	.	SFC2310DC	LM310N	0	AMLM310N
DIL-14/1P	N	G	E+	E-	N	V-	T	T*S	R	N	V+	N	N	N	.	.	.	SFC2311EC	LM311D	0	AMLM311D
T05-8/1M	G	E+	E-	V-	T	T*S	R	V+	.	.	.	.	.	.	.	.	.	SFC2311	LM311H	0	AMLM311H
DIL-14/1P	N	T	C	E-	E+	C*	V-	N	F	R	V+	T*	N	N	.	.	.	LM312D	0	AMLM312D	
T05-8/1M	T	E-	E+	V-	F	R	V+	T*	.	.	.	.	.	.	.	.	.	LM312H	0	AMLM312H	
DIL-14/1P	N	T	W	E-	E+	W*	V-	N	F	R	V+	T*	N	N	.	.	.	MLM316AD	LM316AD	0	AMLM316AD
FLP-10/3C	N	W	E-	E+	W*	V-	R	V+	T	T*	.	.	.	.	.	.	.	LM316AF	0	AMLM316AF	

# 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  $\times 10^3$ )
- GHZ = gigahertz (megahertz  $\times 10^3$ )
- 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  $\times 10^{-3}$ )
- NV = nanovolts (microvolts  $\times 10^{-3}$ )
- PA = picoamps (microamps  $\times 10^{-12}$ )
- R = ohms
- T = teraohms (megohms  $\times 10^6$ )
- V = volts
- WC = watts, case at 25C
- WF = watts, free air at 25C
- WH = watts, heatsink, 25C
- $\mu$ A = microamps
- $\mu$ S = microseconds
- $\mu$ V = microvolts
- $\mu$ W = microwatts
- $\mu$ WF = 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

### 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
- $V_{idc}$  = 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
- $\phi, \phi^*$  = 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 SUBSTITUTION	USA SUBSTITUTION	ISS	TYPE NUMBER	
T05-8/1M	T	E-	E+	V-	T*	R	V+	N	.	.	.	.	.	.	.	.	.	.	LH0022H	0	LH0022CH

CASE = PACKAGE OF DIFFERENT TYPES CODED ACCORDING TO APP. F - FIRST NUMBER INDICATES NUMBER OF LEAD POSITIONS EG DIL-14 = 14 LEAD DUAL-IN-LINE PACKAGE

LD1, LD2, ETC = LEAD NUMBERS WITH CONNECTIONS ACCORDING TO PAGE FOOTNOTE OR APP. G.

EURO SUBSTITUTION = PROELECTRON STANDARD OR OTHER TYPE AVAILABLE IN EUROPE

USA SUBSTITUTION = SUGGESTED ALTERNATIVE AVAILABLE IN USA.

ISS = ISSUE NUMBER OF DATA ENTRY

TYPE No. REPEATED ON R.H. MARGIN

# Appendix C

## Tabulation Codes for Manufacturers

<b>ADU</b>	<b>Advanced Micro Devices Inc.,</b> 901 Thompson Pl., Sunnyvale, CA 94086, USA	<b>ITU</b>	DA14 5HT, UK <b>ITT Semiconductors</b> 74 Commerce Way, Woburn, MA, 01801, USA
<b>ANG</b>	<b>Analog Devices Ltd,</b> Central Ave., East Molesey, KT8 9BR, Surrey, UK	<b>MNG</b>	<b>Mitsubishi Shoji Kaisha Ltd,</b> Bow Bells House, Bread St., London, EC4, UK
<b>ANU</b>	<b>Analog Devices Inc.,</b> P.O. Box 280, Norwood, Mass., 02062	<b>MNJ</b>	<b>Mitsubishi Electric Corp.,</b> 2-12 Marunouchi, Chiyoda-ku, Tokyo, Japan
<b>BLG</b>	<b>Bell &amp; Howell Ltd,</b> Lennox Road, Basingstoke, Hants, UK	<b>MTG</b>	<b>Motorola Ltd</b> (Semiconductor Products Div.), York House, Empire Way, Wembley, Middlesex, HA9 0PR, UK
<b>BLU</b>	<b>Bell &amp; Howell</b> (Control Products Divison), 706 Bostwick Ave, Bridgeport, Conn. 06605, USA	<b>MTU</b>	<b>Motorola Semiconductor Products Inc.,</b> 5005 E. McDowell Road, Phoenix, AZ, 85008, USA
<b>BUG</b>	<b>Burr-Brown International Ltd,</b> 17 Exchange Rd, Watford, WQD1 7EB, Herts., UK	<b>MUG</b>	<b>Mullard Ltd,</b> Mullard House, Torrington Place, London, WC1E 7HD, UK
<b>BUU</b>	<b>Burr-Brown Research Corp.,</b> P.O. Box 11400, Tucson, AZ, 85734, USA	<b>NAG</b>	<b>National Semiconductor (UK) Ltd,</b> Harpur Centre, Bedford, MK40 3LF, UK
<b>CMG</b>	<b>Computing Techniques Ltd,</b> Brookers Rd, Billingshurst, Sussex, RH14 9RZ, UK	<b>NAU</b>	<b>National Semiconductor Corp.,</b> 2900 Semiconductor Drive, Santa Clara, CA, 95051, USA
<b>DAG</b>	<b>Datel UK Ltd,</b> Stephenson Close, Portway Ind. Estate, Andover, Hants, UK	<b>NIJ</b>	<b>Nippon Electric Co. Ltd,</b> 1753 Shimonumabe, Nakahara-ku, Kawasaki, Japan
<b>DAU</b>	<b>Datel Systems Inc.,</b> 1020 Turnpike St., Canton, MA 02021, USA	<b>OAU</b>	<b>Opamp Labs Inc.,</b> 1033 N. Sycamore Ave., Los Angeles, CA 90038, USA
<b>FAG</b>	<b>Fairchild Camera &amp; Instrument (UK) Ltd,</b> 230 High St., Potters Bar, Herts., UK	<b>OBS</b>	Obsolete – no longer commercially available.
<b>FAU</b>	<b>Fairchild Semiconductor</b> 464 Ellis St., Mountain View, CA 94042, USA	<b>OTU</b>	<b>Optical Electronics Inc.,</b> P.O. Box 11140, Tucson, AZ, 85734, USA
<b>FEG</b>	<b>Ferranti Ltd,</b> (Electronic Department), Gem Mill, Chadderton, Oldham, Lancs., OL9 8NP, UK	<b>PLG</b>	<b>Plessey Semiconductors,</b> Cheney Manor, Swindon, Wilts., SN2 2QW, UK
<b>FUJ</b>	<b>Fujitsu Ltd,</b> 1015 Kamikodanaka, Kawasaki, Japan	<b>PRG</b>	<b>Precision Monolithics</b> (Bourns Trimpot Ltd) 17/27 High St., Hounslow, Middlesex, UK
<b>HAG</b>	<b>Harris Semiconductor (Memec) Ltd,</b> The Firs, Whitchurch, Nr. Aylesbury, Bucks., HP22 4JU, UK	<b>PRU</b>	<b>Precision Monolithics (Bourns) Inc.,</b> 1500 Space Park Drive, Santa Clara, CA, 95050, USA
<b>HAU</b>	<b>Harris Semiconductor</b> P.O. Box 883, Melbourne, FL, 32901, USA	<b>RAG</b>	<b>Raytheon Semiconductor</b> The Pinnacles, Harlow, Essex, CM19 5BB, UK
<b>HIJ</b>	<b>Hitachi Ltd</b> (Semiconductor and IC Div.), 1450 Josuiehonimachi, Kodaira City, Tokyo, Japan	<b>RAU</b>	<b>Raytheon Semiconductor,</b> 350 Ellis Street, Mountain View, CA, 94042, USA
<b>ING</b>	<b>Intersil Inc.,</b> 8 Tessa Rd, Richfield Trading Estate, Reading, Berks., UK	<b>RCG</b>	<b>RCA (Great Britain) Ltd,</b> Lincoln Way, Windmill Road, Sunbury-on- Thames, Middlesex, UK
<b>INU</b>	<b>Intersil Inc.,</b> 10900 N. Tantau Ave, Cupertino, CA, 95014, USA	<b>RCU</b>	<b>RCA Solid State Division</b> Route 202, Somerville, NJ, 08876, USA
<b>ITG</b>	<b>ITT Semiconductors</b> Maidstone Rd, Fooks Cray, Sidcup, Kent,	<b>SAJ</b>	<b>Sanken Electric Co. Ltd,</b> 1-22-8 Nishi-Ikebukuro, Toshima-Ku, Tokyo, Japan

Appendix C

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

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



# Appendix E

## Tabulation Codes for Applications

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

# Appendix G

## Codes for Leadout Connections

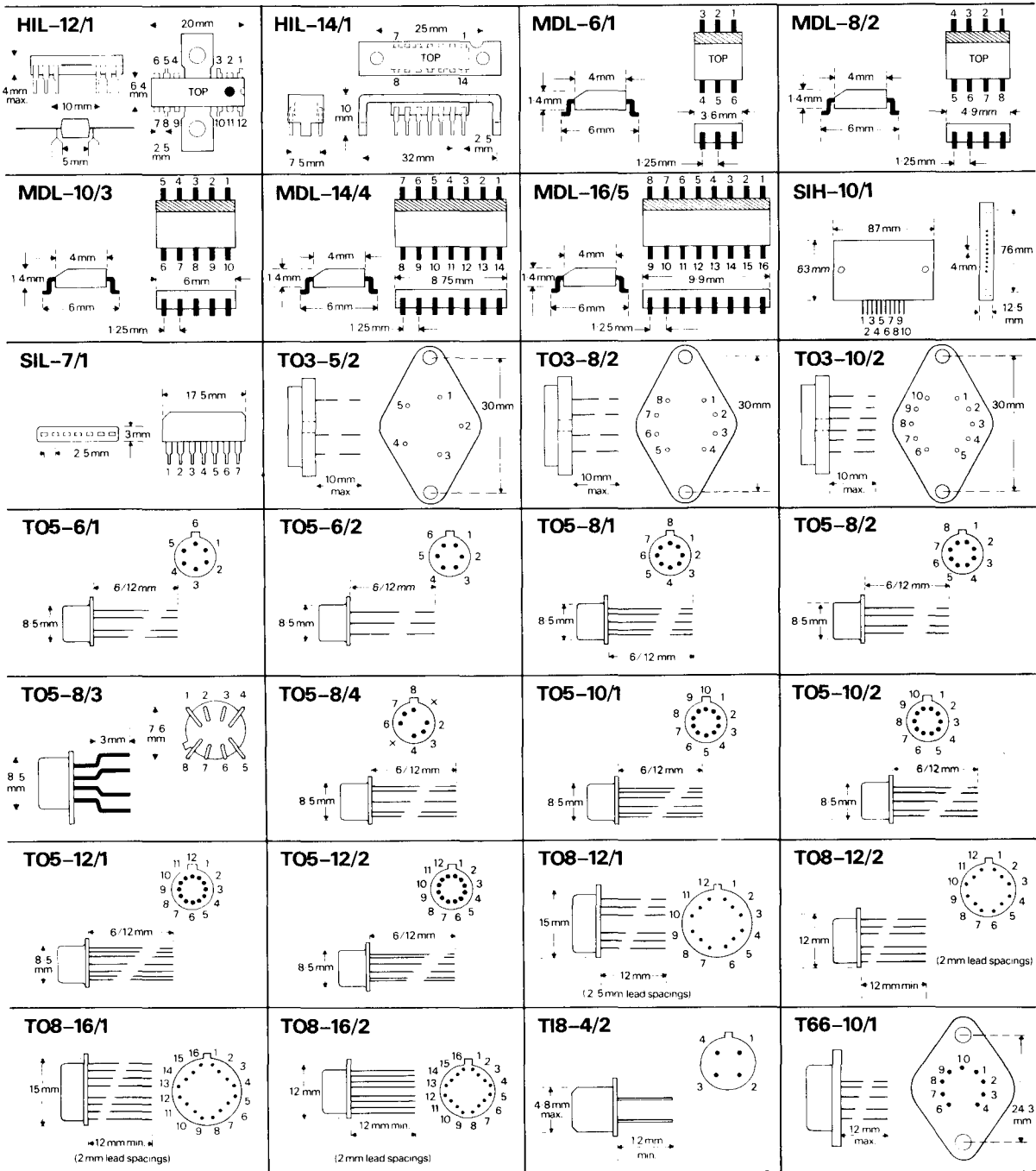
### *I: Connection Codes in Serial Order*

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



Appendix F

<p><b>BML</b> BEAM LEAD CHIP</p> <p>(for details see manufacturer's data sheet)</p>	<p><b>CFL</b> FLIP CHIP</p> <p>(for details see manufacturer's data sheet)</p>	<p><b>CHP</b> CHIP (face up)</p> <p>(for details see manufacturer's data sheet)</p>	<p><b>DIL-6/1</b></p>
<p><b>DIL-8/1</b></p>	<p><b>DIL-10/1</b></p>	<p><b>DIL-12/1</b></p>	<p><b>DIL-14/1</b></p>
<p><b>DIL-16/1</b></p>	<p><b>DIM-5/4</b></p>	<p><b>DIM-7/5</b></p>	<p><b>DIM-8/3</b></p>
<p><b>DIM-9/5</b></p>	<p><b>DIM-11/5</b></p>	<p><b>DIM-14/1</b></p>	<p><b>FLP-5/6</b></p>
<p><b>FLP-6/1</b></p>	<p><b>FLP-6/2</b></p>	<p><b>FLP-8/2</b></p>	<p><b>FLP-10/1</b></p>
<p><b>FLP-10/3</b></p>	<p><b>FLP-14/3</b></p>	<p><b>FLP-16/3</b></p>	<p><b>FLP-16/4</b></p>