

PACKAGE INFORMATION - PIN COUNT/PACKAGE TYPE

		A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y
		DIP (P)	PLCC (LJP)	**QFP	*TQFP	*VTQFP	BGA	FBGA	LGA	SOP	SSOP	SOJ	SOIC	*STQFP	LFBGA	LBGA	**MQFP	***QN	***TQN	***VTQN	***STQN	***MQN	QFN (5x5mm)	QFN (6x6mm)
A	16	AA	AB	AC	AD	AE	AF	AG	AH	AJ	AK	AL	AM	AN	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY
B	20	BA	BB	BC	BD	BE	BF	BG	BH	BJ	BK	BL	BM	BN	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY
C	24	CA	CB	CC	CD	CE	CF	CG	CH	CJ	CK	CL	CM	CN	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY
D	28	DA	DB	DC	DD	DE	DF	DG	DH	DJ	DK	DL	DM	DN	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY
E	32	EA	EB	EC	ED	EE	EF	EG	EH	EJ	EK	EL	EM	EN	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY
F	40	FA	FB	FC	FD	FE	FF	FG	FH	FJ	FK	FL	FM	FN	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY
G	44	GA	GB	GC	GD	GE	GF	GG	GH	GJ	GK	GL	GM	GN	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY
H	48	HA	HB	HC	HD	HE	HF	HG	HH	HJ	HK	HL	HM	HN	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY
J	64	JA	JB	JC	JD	JE	JF	JG	JH	JJ	JK	JL	JM	JN	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY
K	68	KA	KB	KC	KD	KE	KF	KG	KH	KJ	KK	KL	KM	KN	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY
L	84	LA	LB	LC	LD	LE	LF	LG	LH	LJ	LK	LL	LM	LN	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY
M	100	MA	MB	MC	MD	ME	MF	MG	MH	MJ	MK	ML	MM	MN	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY
N	128	NA	NB	NC	ND	NE	NF	NG	NH	NJ	NK	NL	NM	NN	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY
P	144	PA	PB	PC	PD	PE	PF	PG	PH	PJ	PK	PL	PM	PN	PP	PQ	PR	PS	PT	PV	PW	PX	PY	
Q	160	QA	QB	QC	QD	QE	QF	QG	QH	QJ	QK	QL	QM	QN	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY
R	176	RA	RB	RC	RD	RE	RF	RG	RH	RJ	RK	RL	RM	RN	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY
S	208	SA	SB	SC	SD	SE	SF	SG	SH	SJ	SK	SL	SM	SN	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY
T	292	TA	TB	TC	TD	TE	TF	TG	TH	TJ	TK	TL	TM	TN	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY
U	324	UA	UB	UC	UD	UE	UF	UG	UH	UJ	UK	UL	UM	UN	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY
V	352	VA	VB	VC	VD	VE	VF	VG	VH	VJ	VK	VL	VM	VN	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY
W	420	WA	WB	WC	WD	WE	WF	WG	WH	WJ	WK	WL	WM	WN	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY
X	492	XA	XB	XC	XD	XE	XF	XG	XH	XJ	XK	XL	XM	XN	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY
Y	560	YA	YB	YC	YD	YE	YF	YG	YH	YJ	YK	YL	YM	YN	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY
Z	416	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZJ	ZK	ZL	ZM	ZN	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY
AA	256	AAA	AAB	AAC	AAD	AAE	AAF	AAG	AAH	AAJ	AAK	AAL	AAM	AAN	AAP	AAQ	AAR	AAS	AAT	AAU	AAV	AAW	AAX	AAY
AB	56	ABA	ABB	ABC	ABD	ABE	ABF	ABG	ABH	ABJ	ABK	ABL	ABM	ABN	ABP	ABQ	ABR	ABS	ABT	ABU	ABV	ABW	ABX	ABY
AC	8	ACA	ACB	ACC	ACD	ACE	ACF	ACG	ACH	ACJ	ACK	ACL	ACM	ACN	ACP	ACQ	ACR	ACS	ACT	ACU	ACV	ACW	ACX	ACY
AD	80	ADA	ADB	ADC	ADD	ADE	ADF	ADG	ADH	ADJ	ADK	ADL	ADM	ADN	ADP	ADQ	ADR	ADS	ADT	ADU	ADV	ADW	ADX	ADY
AE	36	AEA	AEB	AEC	AED	AEE	AEF	AEG	AEH	A EJ	AEK	AEL	AEM	AEN	AEP	AEQ	AER	AES	AET	A EU	AEV	AEW	AEX	AEY
AF	6	AFA	AFB	AFC	AFD	A FE	A FF	A FG	AFH	AFJ	AFK	A FL	AFM	AFN	AF P	AFQ	AFR	AFS	A FT	AFU	AFV	AFW	AFX	AFY
AG	5	AGA	AGB	AGC	AGD	AGE	AGF	AGG	AGH	AGJ	AGK	AGL	AGM	AGN	AGP	AGQ	AGR	AGS	AGT	AGU	AGV	AGW	AGX	AGY
AH	124	AHA	AHB	AHC	AHD	A HE	A HF	A HG	A HH	A HJ	A HK	A HL	A HM	A HN	A HP	A HQ	A HR	A HS	A HT	A HU	A HV	A HW	A HX	A HY
AI	10	AIA	AIB	AIC	AID	A IE	A IF	A IG	A IH	A IJ	A IK	A IL	A IM	A IN	A IP	A IQ	A IR	A IS	A IT	A IU	A IV	A IW	A IX	A IY
AJ	156	AJA	AJB	AJC	AJD	A JE	A JF	A JG	A JH	A JJ	A JK	A JL	A JM	A JN	A JP	A JQ	A JR	A JS	AJT	AJU	AJV	AJW	AJX	AJY

Orange highlighted package designations are currently qualified at SMSC

KEY FOR 2-DIGIT CODE

1st Letter = Pin Count
 2nd Letter = Package Type

Part Number to be used for Part Marking and Ordering = Base Part Number - 2 (or 3) Digit Code

Examples:

USB97CFDC-MN = USB97CFDC in 100 STQFP package

LPC47N253-AAQ = LPC47N253 in 256 LBGA package

KEY FOR 3-DIGIT CODE (If 2nd letter is A or B, then:)

1st & 2nd Letter = Pin Count
 3rd Letter = Package Type

KEY FOR 3-DIGIT CODE (If 2nd letter is Z, then)

1st Letter = Pin Count
 2nd & 3rd Letter = Package Type

KEY FOR 4-DIGIT CODE

1st & 2nd Letter = Pin Count
 3rd & 4th Letter = Package Type

*Note 1:		
Package Type	Thickness (Nominal)	Body Size (Nominal) - varies depending on Pin Count
TQFP	1.4mm	Current Range: 7.0 x 7.0 mm to 28.0 x 28.0 mm
VTQFP	1.0mm	Current Range: 14.0 x 14.0 mm to 20.0 x 20.0 mm
STQFP	1.4mm	Current Range: 12.0 x 12.0 mm

**Note 2:	
Package Type	Footprint
MQFP	3.2mm
QFP	3.9mm

***Note 3:	
New Lead-Free Package Designations	
QN: Lead Free QFP Pkg.	STQN: Lead Free STQFP Pkg.
TQN: Lead Free TQFP Pkg.	MQN: Lead Free MQFP Pkg.
VTQN: Lead Free VTQFP Pkg.	LBGN: Lead Free LBGA Pkg.
PLN: Lead Free PLCC Pkg.	SSON: Lead Free SSOP pkg
QFNN: Lead Free QFN Pkg.	LFBGN: Lead free LFBGA
SOTN: Lead Free SOT pkg	SOIN: Lead Free SOIC pkg
DQFNN: Lead Free DQFN pkg	TSSON: Lead Free TSSON pkg

Exceptions:

LPC47M192-NC, LPC47M112-MC will not have MR or NR code

Due to space limitations on 8-pin QFNN packages, AEZG was shrunk to only ZG for top marking purposes

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		Z QFN (9x9mm)	ZA ***LBGN	ZB TSSOP / MSOP	ZC ***SSON	ZD ***PLN	ZE QFN (7x7mm)	ZF QFN (8x8mm)	ZG ***QFNN (6x6mm)	ZH ***QFNN (7x7mm)	ZJ QFNN (8x8mm)	ZK ***QFNN (5x5mm)	ZL ***TSSON	ZM SOT	ZN SIP	ZP ***LBGN	ZQ ***SOTN	ZR DQFN	ZS ***DQFNN	ZT ***SOIN
A	16	AZ	AZA	AZB	AZC	AZD	AZE	AZF	AG	AZH	AZJ	AZK	AZL	AZM	AZN	AZP	AZQ	AZR	AZS	AZT
B	20	BZ	BZA	BZB	BZC	BZD	BZE	BZF	BZG	BZH	BZJ	BZK	BZL	BZM	BZN	BZP	BZQ	BZR	BZS	BZT
C	24	CZ	CZA	CZB	CZC	CZD	CZE	CZF	CZG	CZH	CZJ	CZK	CZL	CZM	CZN	CZP	CZQ	CZR	CZS	CZT
D	28	DZ	DZA	DZB	DZC	DZD	DZE	DZF	DZG	DZH	DZJ	DZK	DZL	DZM	DZN	DZP	DZQ	DZR	DZS	DZT
E	32	EZ	EZA	EZB	EZC	EZD	EZE	EZF	EZG	EZH	EZJ	EZK	EZL	EZM	EZN	EZP	EZQ	EZR	EZS	EZT
F	40	FZ	FZA	FZB	FZC	FZD	FZE	FZF	FZG	FZH	FZJ	FZK	FZL	FZM	FZN	FZP	FZQ	FZR	FZS	FZT
G	44	GZ	GZA	GZB	GZC	GZD	GZE	GZF	GZG	GZH	GZJ	GZK	GZL	GZM	GZN	GZP	GZQ	GZR	GZS	GZT
H	48	HZ	HZA	HZB	HZC	HZD	HZE	HZF	HZG	HZH	HZJ	HZK	HZL	HZM	HZN	HZP	HZQ	HZR	HZS	HZT
J	64	JZ	JZA	JZB	JZC	JZD	JZE	JZF	JZG	JZH	JZJ	JZK	JZL	JZM	JZN	JZP	JZQ	JZR	JZS	JZT
K	68	KZ	KZA	KZB	KZC	KZD	KZE	KZF	KZG	KZH	KZJ	KZK	KZL	KZM	KZN	KZP	KZQ	KZR	KZS	KZT
L	84	LZ	LZA	LZB	LZC	LZD	LZE	LZF	LZG	LZH	LZJ	LZK	LZL	LZM	LZN	LZP	LZQ	LZR	LZS	LZT
M	100	MZ	MZA	MZB	MZC	MZD	MZE	MZF	MZG	MZH	MZJ	MZK	MZL	MZM	MZN	MZP	MZQ	MZR	MZS	MZT
N	128	NZ	NZA	NZB	NZC	NZD	NZE	NZF	NZG	NZH	NZJ	NZK	NZL	NZM	NZN	NZP	NZQ	NZR	NZS	NZT
P	144	PZ	PZA	PZB	PZC	PZD	PZE	PZF	PZG	PZH	PZJ	PZK	PZL	PZM	PZN	PZP	PZQ	PZR	PZS	PZT
Q	160	QZ	QZA	QZB	QZC	QZD	QZE	QZF	QZG	QZH	QZJ	QZK	QZL	QZM	QZN	QZP	QZQ	QZR	QZS	QZT
R	176	RZ	RZA	RZB	RZC	RZD	RZE	RZF	RZG	RZH	RZJ	RZK	RZL	RZM	RZN	RZP	RZQ	RZR	RZS	RZT
S	208	SZ	SZA	SZB	SZC	SZD	SZE	SZF	SZG	SZH	SZJ	SZK	SZL	SZM	SZN	SZP	SZQ	SZR	SZS	SZT
T	292	TZ	TZA	TZB	TZC	TZD	TZE	TZF	TZG	TZH	TZJ	TZK	TZL	TZM	TZN	TZP	TZQ	TZR	TZS	TZT
U	324	UZ	UZA	UZB	UZC	UZD	UZE	UZF	UZG	UZH	UZJ	UZK	UZL	UZM	UZN	UZP	UZQ	UZR	UZS	UZT
V	352	VZ	VZA	VZB	VZC	VZD	VZE	VZF	VZG	VZH	VZJ	VZK	VZL	VZM	VZN	VZP	VZQ	VZR	VZS	VZT
W	420	WZ	WZA	WZB	WZC	WZD	WZE	WZF	WZG	WZH	WZJ	WZK	WZL	WZM	WZN	WZP	WZQ	WZR	WZS	WZT
X	492	XZ	XZA	XZB	XZC	XZD	XZE	XZF	XZG	XZH	XZJ	XZK	XZL	XZM	XZN	XZP	XZQ	XZR	XZS	XZT
Y	560	YZ	YZA	YZB	YZC	YZD	YZE	YZF	YZG	YZH	YZJ	YZK	YZL	YZM	YZN	YZP	YZQ	YZR	YZS	YZT
Z	416	ZZ	ZZA	ZZB	ZZC	ZZD	ZZE	ZZF	ZZG	ZZH	ZZJ	ZZK	ZZL	ZZM	ZZN	ZZP	ZZQ	ZZR	ZZS	ZZT
AA	256	AAZ	AAZA	AAZB	AAZC	AAZD	AAZE	AAZF	AAZG	AAZH	AAZJ	AAZK	AAZL	AAZM	AAZN	AAZP	AAZQ	AAZR	AAZS	AAZT
AB	56	ABZ	ABZA	ABZB	ABZC	ABZD	ABZE	ABZF	ABZG	ABZH	ABZJ	ABZK	ABZL	ABZM	ABZN	ABZP	ABZQ	ABZR	ABZS	ABZT
AC	8	ACZ	ACZA	ACZB	ACZC	ACZD	ACZE	ACZF	ACZG	ACZH	ACZJ	ACZK	ACZL	ACZM	ACZN	ACZP	ACZQ	ACZR	ACZS	ACZT
AD	80	ADZ	ADZA	ADZB	ADZC	ADZD	ADZE	ADZF	ADZG	ADZH	ADZJ	ADZK	ADZL	ADZM	ADZN	ADZP	ADZQ	ADZR	ADZS	ADZT
AE	36	AEZ	AEZA	AEZB	AEZC	AEZD	AEZE	AEZF	AEZG	AEZH	AEZJ	AEZK	AEZL	AEZM	AEZN	AEZP	AEZQ	AEZR	AEZS	AEZT
AF	6	AFZ	AFZA	AFZB	AFZC	AFZD	AFZE	AFZF	AFZG	AFZH	AFZJ	AFZK	AFZL	AFZM	AFZN	AFZP	AFZQ	AFZR	AFZS	AFZT
AG	5	AGZ	AGZA	AGZB	AGZC	AGZD	AGZE	AGZF	AGZG	AGZH	AGZJ	AGZK	AGZL	AGZM	AGZN	AGZP	AGZQ	AGZR	AGZS	AGZT
AH	124	AHZ	AHZA	AHZB	AHZC	AHZD	AHZE	AHZF	AHZG	AHZH	AHZJ	AHZK	AHZL	AHZM	AHZN	AHZP	AHZQ	AHZR	AHZS	AHZT
AI	10	AIZ	AIZA	AIZB	AIZC	AIZD	AIZE	AIZF	AIZG	AIZH	AIZJ	AIZK	AIZL	AIZM	AIZN	AIZP	AIZQ	AIZR	AIZS	AIZT
AJ	156	AJZ	AJZA	AJZB	AJZC	AJZD	AJZE	AJZF	AJZG	AJZH	AJZJ	AJZK	AJZL	AJZM	AJZN	AJZP	AJZQ	AJZR	AJZS	AJZT