



# Product Change Notification

**# 961**

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# Product Change Notification

**Change Notification #:** 961  
**Change Title:** Plastic Ball Grid Array (PBGA) Relaxation of Coplanarity USL from 6 Mils to 8Mils  
**Date of PCN Publication:** July 20, 2000

**Type of Change Notification:**  
FYI (for-your-information)

**Key Characteristics of the Change:**  
Process

## Forecasted Key Milestones:

Date Customer Must be Ready to Receive Post-Conversion Material: August 24, 2000  
Date of First Availability of Post-Conversion Material: August 24, 2000

*The date of "First Availability of Post-Conversion Material" is the earliest date that a customer may expect to receive the Post-Conversion Materials. This date is determined by the projected depletion of inventory at the time of the PCN publication. The depletion of inventory may be impacted by fluctuating supply and demand, therefore, although customers should be prepared to receive the Post-Converted Materials on this date, Intel will continue to ship and customers may continue to receive the pre-converted materials until the inventory has been depleted.*

## Description of Change to the Customer:

Intel will relax the PBGA package co-planarity USL at RVSI backend, from 6 mils to 8 mils. This change will bring Intel in line with the standard JEP95-M0151 published by the Joint Electronic Device Engineering Council (JEDEC). For your reference, this JEDEC standard can be found at the following URL: <http://www.jedec.org/download/pub95/MO-151.pdf>.

**Note: All new products not yet released will be introduced to the 8 mils specification.**

## Customer Impact of Change and Recommended Action:

No recommended action, no customer impact.



# Product Change Notification

## Products Affected / Intel Ordering Codes:

PACKAGE/PIN	PRODUCT	MM#/SPEC	PACKAGE/PIN	PRODUCT	MM#/SPEC
PBGA304	21154AC	821305	PBGA492	FW82443ZXM	S L3X6
PBGA304	21154BC	821308	PBGA492	FW82443ZX	S L33K
PBGA196	21156AA	821397	PBGA492	FW82443ZX	S L33W
PBGA352	21383AA	821398	PBGA492	FW82443ZX	S L39C
PBGA304	21554AA	821311	PBGA492	FW82443ZX	S L3LV
PBGA544	82815	Q 963	PBGA256	FW82452GX	S U057
PBGA544	82815	Q 964	PBGA324	FW82452NX	S L2RW
PBGA304	FW21555AA	830324	PBGA324	FW82452NX	S L2XA
PBGA304	FW21555BA	830320	PBGA324	FW82452NX	S L3FV
PBGA324	FW80960VH100	820682	PBGA324	FW82453NX	S L2RX
PBGA324	FW80971AB11	817676	PBGA324	FW82453NX	S L2X9
PBGA324	FW80971AB11	Q 870	PBGA352	FW82454GX	S U063
PBGA324	FW82371AB	Q 138	PBGA352	FW82543GC	826333
PBGA324	FW82371EB	S L37M	PBGA352	FW82543GC	Q 416
PBGA324	FW82371MB	S L3CG	PBGA324	FW82565ET	821720
PBGA324	FW82439HX	S U115	PBGA324	FW82565ET	Q 407
PBGA324	FW82439HX	S U118	PBGA241	FW82801AA	S L3MA
PBGA324	FW82439TX	Q 139	PBGA241	FW82801AA	S L3MZ
PBGA324	FW82439TX	S L28T	PBGA241	FW82801AA	S LM3A
PBGA324	FW82439TX	S L2LR	PBGA241	FW82801AB	S L38J
PBGA324	FW82439TX	S L3BT	PBGA241	FW82801AB	S L38P
PBGA492	FW82443BX	S L2VH	PBGA241	FW82801AB	S L3LX
PBGA492	FW82443BX	S L33H	PBGA241	FW82801AB	S L3LZ
PBGA492	FW82443DX	S L33J	PBGA241	FW82801AB	S L3MB
PBGA492	FW82443DX	S L39A	PBGA241	FW82801AB	S L3N2
PBGA492	FW82443EX	S L2SA	PBGA241	FW82801AB	S L3NZ
PBGA492	FW82443EX	S L2SB	PBGA324	FW82803AA	S L3ML
PBGA492	FW82443GX	S L2TF	PBGA324	FW82803AA	S L3MM
PBGA492	FW82443GX	S L2VJ	PBGA324	FW82803AA	S L3MT
PBGA492	FW82443LX	S L2KK	PBGA324	FW82803AA	S L3MU
PBGA492	FW82443LX	S L2KN	PBGA241	FW82804AA	S L3PT
PBGA492	FW82443MX100	S L3N4	PBGA241	FW82804AA	S L3PU
PBGA492	FW82443MX100	S L3QW	PBGA241	FW82804AA	S L3R6
PBGA492	FW82443MX	S L37L	PBGA241	FW82804AA	S L3R7
PBGA492	FW82443MX	S L3J3	PBGA241	FW82806AA	S L3T5
PBGA492	FW82443ZX100M	S L3SQ	PBGA241	FW82806AA	S L3T6
PBGA492	FW82443ZX66M	S L3HS	PBGA241	FW82806AA	S L3VZ
PBGA492	FW82443ZX66M	S L3LT	PBGA241	FW82806AA	S L3W2
PBGA492	FW82443ZX66M	S L3M5	PBGA421	FW82810DC100	S L35K
PBGA492	FW82443ZX66M	S L3MS	PBGA421	FW82810DC100	S L3KK
PBGA492	FW82443ZX66	S L37A	PBGA421	FW82810DC100	S L3P6
PBGA492	FW82443ZX66	S L39B	PBGA421	FW82810DC100	S L3Q6
PBGA492	FW82443ZXM	S L3VP	PBGA421	FW82810E	S L3MD



# Product Change Notification

PACKAGE/PIN	PRODUCT	MM#/SPEC	PACKAGE/PIN	PRODUCT	MM#/SPEC
PBGA421	FW82810E	S L3Q4	PBGA544	FW82840QP	Q 925
PBGA421	FW82810E	S L3RX	PBGA544	FW82840QP	Q 926
PBGA421	FW82810	S L35X	PBGA544	FW82840	S L3MQ
PBGA421	FW82810	S L3KL	PBGA544	FW82840	S L3MX
PBGA421	FW82810	S L3P7	PBGA544	FW82840	S L3QR
PBGA421	FW82810	S L3Q7	PBGA544	FW82840	S L3QT
PBGA544	FW82815EM	Q A38	PBGA544	FW82840	S L3TA
PBGA544	FW82815EM	Q A51	PBGA544	FW82840	S L3TB
PBGA544	FW82815EM	S L4MP	PBGA208	FW88386VXSA	816014
PBGA544	FW82815	Q 921	PBGA208	FW88386VXSA	Q 911
PBGA544	FW82815	Q 963	PBGA208	FW88386VXSA	Q 954
PBGA544	FW82815	Q 964	PBGA208	FW88386VXSC	814210
PBGA544	FW82815	Q A13	PBGA208	FW88386VXSC	Q 844
PBGA544	FW82815	Q A14	PBGA208	FW88386VXSC	Q 852
PBGA544	FW82815	S L4DF	PBGA208	FW88386VXSD	818974
PBGA324	FW82820DP	S L353	PBGA208	FW88386VXSD	Q 109
PBGA324	FW82820DP	S L3KM	PBGA208	FW88386VXSE10	Q 964
PBGA324	FW82820DP	S L47F	PBGA208	FW88386VXSE	818138
PBGA324	FW82820DP	S L47G	PBGA208	FW88386VXSE	Q 964
PBGA324	FW82820	S L3FT	PBGA208	FW88386VXSG	827000
PBGA324	FW82820	S L3KN	PBGA208	FW88386VXSG	Q 154
PBGA324	FW82820	S L47D	PBGA208	FW88L188EB13	
PBGA324	FW82820	S L47E	PBGA208	FW88L188EB13	Q 860
PBGA324	FW82820	S L47F	PBGA208	FW88L188EB13	Q 867
PBGA324	FW82820	S L47G	PBGA208	FW88L188EB13	Q 890
PBGA544	FW82840	Q 748	PBGA208	FW88L188EB13	Q 892
PBGA544	FW82840	Q 749	PBGA208	FW88L188EB13	S L2BN
PBGA544	FW82840	Q 750	PBGA256	FWPRFPID	S L44R
PBGA544	FW82840	Q 783	HL-PBGA352	GC21440AD	823405
PBGA544	FW82840	Q 784	HL-PBGA352	GC80503CS166EXT	Q 124
PBGA544	FW82840	Q 785	HL-PBGA352	GC80503CS166EXT	S L3B8
PBGA544	FW82840	Q 801	HL-PBGA352	GC80503CS66166A	Q 124
PBGA544	FW82840	Q 802	HL-PBGA352	GC80503CS66166A	S L3B8
PBGA544	FW82840	Q 803	HL-PBGA352	GC80503CSM66166	Q 104
PBGA544	FW82840	Q 831	HL-PBGA352	GC80503CSM66166	S L388
PBGA544	FW82840	Q 832	HL-PBGA352	GC80503CSM66266	Q 105
PBGA544	FW82840	Q 833	HL-PBGA352	GC80503CSM66266	S L389
PBGA544	FW82840	Q 881	HL-PBGA352	GC80503CSM	Q 107
PBGA544	FW82840	Q 882	HL-PBGA352	GC80503CSM	Q 170
PBGA544	FW82840	Q 883	PBGA352	GC80960RD66	S L27V
PBGA544	FW82840	Q 885	PBGA352	GC80960RD66	S L394
PBGA544	FW82840	Q 898	PBGA352	GC80960RD66	S L395
PBGA544	FW82840	Q 899	PBGA352	GC80960RP33	S L243
PBGA544	FW82840	Q 900	PBGA352	GC80960RP33	S L244
PBGA544	FW82840QP	Q 924	PBGA352	GC80960RP3V33	S L2GD



# Product Change Notification

PACKAGE/PIN	PRODUCT	MM#/SPEC
PBGA352	GC80960RP3V33	S L396
PBGA352	GC80960RP3V33	S L397
HL-PBGA304	GCIXF1002EC	827637
HL-PBGA352	GCIXF440AC	831001
HL-PBGA432	GCIXP1200EA	829314
HL-PBGA432	GCIXP1200EB	829764
PBGA196	GD21152AB	Q 159
PBGA196	GD80386VXSf	Q 144
PBGA196	GD80960JA25	820061
PBGA196	GD80960JA33	820063
PBGA196	GD80960JC33	819324
PBGA196	GD80960JC40	820057
PBGA196	GD80960JC50	819323
PBGA196	GD80960JC66	819322
PBGA196	GD80960JC66ET	826014
PBGA196	GD80960JD50	817387
PBGA196	GD80960JF33	819771
PBGA196	GD80960JS16	819320
PBGA196	GD80960JS25	819343
PBGA196	GD80960JS33	819319
PBGA196	GD80960JT100	819420
PBGA196	GD80LQM3	816676
PBGA196	GD82550EL	829943
PBGA196	GD82550EL	830749
PBGA196	GD82550EL	Q 427
PBGA196	GD82550EL	Q 436
PBGA196	GD82550EL	S L49B
PBGA196	GD82550EL	S L4MK
PBGA196	GD82550EM	830754
PBGA196	GD82550EM	Q 437
PBGA196	GD82550EM	S L4ML
PBGA196	GD82550EY	829949
PBGA196	GD82550EY	830752
PBGA196	GD82550EY	Q 414
PBGA196	GD82550EY	Q 435
PBGA196	GD82550EY	S L49A
PBGA196	GD82550EY	S L4MJ
PBGA196	GD82550GM	829952
PBGA196	GD82550GM	Q 413
PBGA196	GD82550GM	S L49C
PBGA196	GD82559	821112
PBGA196	GD82559C	824178
PBGA196	GD82559C	Q 408
PBGA196	GD82559C	S L3DF



## Product Change Notification

PACKAGE/PIN	PRODUCT	MM#/SPEC
PBGA196	GD82559ER	824184
PBGA196	GD82559ER	Q 409
PBGA196	GD82559ER	S L3DG
PBGA196	GD82559ER	S L3RB
PBGA196	GD82559ER	S L3TU
PBGA196	GD82559	Q 405
PBGA196	GD82559	Q 406
PBGA196	GD82559	S L3HD
PBGA196	GD82559	S L3Q3
HL-PBGA352	TL82543GC	829155
HL-PBGA352	TL82543GC	S L4AC

**Date of Revision:**  
TBD

**Revision Number:**  
0

**Reason:**  
Original Publication