

ON Semiconductor
Formerly a Division of Motorola



Subject: Motorola PRODUCT AND PROCESS CHANGE NOTIFICATION 4423

TITLE: TSSOP14/16/20 ASSEMBLY AND TEST SITE TRANSFER TO MOTOROLA PHILIPPINES INC.

EFFECTIVE DATE: 15-MAY-99

AFFECTED CHANGE CATEGORIES

Motorola Assembly Site

Motorola Test Site

AFFECTED PRODUCT DIVISIONS

GENERAL PURPOSE PRO WIRELESS RF/IF CONS BROADCAST
COMM, TRANS, ACCESS ADV DIGITAL CONSUME

ADDITIONAL RELIABILITY DATA: None

Ref: NPM057

SAMPLES: Contact Below

Ref: NPM151@email.sps.mot.com

Contact your local Motorola Sales Office.

For any questions concerning this notification:

REFERENCE: NOBUYUKI OHTAKE

PHONE: 81-241-27-2231

DISCLAIMER:

MOTOROLA WILL CONSIDER THIS CHANGE APPROVED UNLESS SPECIFIC
CONDITIONS OF ACCEPTANCE ARE PROVIDED IN WRITING WITHIN 30 DAYS OF
RECEIPT OF THIS NOTICE. TO DO SO, CONTACT YOUR LOCAL MOTOROLA SALES
OFFICE.

GPCN FORMAT: CUSTOMER

DO NOT REPLY TO THIS MESSAGE.

PRODUCT AND PROCESS CHANGE NOTIFICATION

ISSUE DATE: 07-Feb-1999

NOTIFICATION #:4423

EFFECTIVE DATE: 15-May-1999

ISSUING DIVISION:NML-S/ISYS

DESCRIPTION AND PURPOSE

Motorola has decided to consolidate Aizu backend operation into other manufacturing sites, which will enable Aizu to become a center of excellence focused on Analog CMOS and T MOS technologies. The TSSOP14/16/20 assembly and test in Aizu backend covered by this PCN will be transferred to Motorola Phillippines Inc.(Carmona) in Philippines which is a QS9000 certified assembly and test site and currently building TSSOP14/16/20. Whole Aizu TSSOP14/16/20 manufacturing line will be transferred to Philippines facility. The same production materials as Aizu will be used after the transfer. The shutdown timing in Aizu is 18-Jun-99.

NOTE: All Life Time Buy Notices (end of life) previously issue for this product, remain in effect and will be phased out as stated.

QUALIFICATION PLAN

TSSOP assembly/test volume production will be started after completion of buy-off/process characterization of product line. Concurrent reliability test will be carried out for validation.

1. Reliability test

The preconditioning for reliability test will be done in accordance with the JDEC Moisture sensitivity for each level.

Package type	Device type	S/S	PCT	T/C
TSSOP16	MCP1850DTB	77 X 3	4-Oct-99	4-Oct-99
TSSOP20	MC145220DT	77 X 3	4-Oct-99	4-Oct-99
TSSOP16	RF568	77 X 1	4-Oct-99	4-Oct-99
TSSOP20	MC145201DT	77 X 1	4-Oct-99	4-Oct-99
TSSOP20	MCCS142237DT	77 X 1	4-Oct-99	4-Oct-99

PCT test condition : 121 degree C/100%RH/2 atm/96 hours.

Temp. cycle test condition: -65 degree C - +150 degree C/1000 cycle

2. Process characterization

The process characterization will be performed in accordance with Motorola internal criteria.

RELIABILITY DATA SUMMARY

The reliability test data of existing products will be available upon request.

ELECTRICAL CHARACTERISTIC SUMMARY

The electrical characteristics report is not applicable because there is no change on product design and wafer process.

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CHANGED PART IDENTIFICATION

There is no physical change to the parts. Only location code in tractability code marked on surface of package will change as below.

Now	After
J L Y W	P L Y W
- - - -	- - - -

- 1st digit : Assembly site location
- 2nd digit : Wafer lot number
- 3rd digit : Year
- 4th digit : Work week

FILE FORMAT: ASCII TEXT
FONT - Courier
SIZE - 12 Point
LINE - 70 characters/line
PAGE - 55 lines/page
PAGEBREAK CHARACTER - ^L (Control L)

AFFECTED DEVICE LIST (WITHOUT SPECIALS)

ENGRSAMPPTS3490	, ENGRSAMPPTS3491	, ENGRSAMPPTS5043	, ENGRSAMPPTS2DIF
ENGRSAMPPTS2SE	, LXM74LCX373DT	, LXM74LCX373DTR2	, LXM74LCX374DT
LXM74LCX374DTR2	, LXM74LCX573DT	, LXM74LCX573DTR2	, LXM74LCX574DT
LXM74LCX574DTR2	, MC12202DT	, MC12202DTR2	, MC12206DT
MC12206DTR2	, MC12210DT	, MC12210DTR2	, MC13055DTB
MC13159DTB	, MC13159DTBEL	, MC14001BDT	, MC14007UBDT
MC14011BDT	, MC14011BDTEL	, MC14011BDTR2	, MC14013BDT
MC14013BDTR2	, MC14015BDT	, MC14020BDT	, MC14040BDT
MC14049UBDT	, MC14049UBDTR2	, MC14050BDT	, MC14050BDTEL
MC14051BDT	, MC14051BDTEL	, MC14051BDTR2	, MC14052BDT
MC14052BDTR2	, MC14053BDT	, MC14053BDTEL	, MC14053BDTR2
MC14060BDT	, MC14060BDTR2	, MC14066BDT	, MC14066BDTEL
MC14066BDTR2	, MC14069UBDT	, MC14069UBDTEL	, MC14069UBDTR2
MC14081BDT	, MC14081BDTR2	, MC14093BDT	, MC14093BDTEL
MC14093BDTR2	, MC14094BDT	, MC14094BDTR2	, MC14106BDT
MC14106BDTR2	, MC14504BDT	, MC145051DT	, MC145051DTR2
MC145170DT1	, MC145170DT1R2	, MC145170DT2	, MC145170DT2R2
MC145190DT	, MC145191DT	, MC145191DTR2	, MC145192DT
MC145192DTR2	, MC145200DT	, MC145201DT	, MC145201DTR2
MC145202DT	, MC145202DTR2	, MC145220DT	, MC145220DTR2
MC14538BDT	, MC14538BDTR2	, MC14541BDT	, MC145481DT
MC145481DTR2	, MC145483DT	, MC145483DTR2	, MC145484DT
MC145484DTR2	, MC14569BDT	, MC14584BDT	, MC14584BDTEL
MC14LC5480DT	, MC14LC5480DTR2	, MC33169DTB-004	, MC33169DTB-4R2
MC33184DTB	, MC33184DTBR2	, MC33204DTB	, MC33204DTBR2
MC33347ADTB	, MC33351DTB-001	, MC33351DTB-002	, MC33351DTB-003
MC33351DTB-004	, MC33351DTB-1R2	, MC33351DTB-2R2	, MC33351DTB-3R2
MC33351DTB-4R2	, MC33490DTB	, MC33490DTBR2	, MC3361CDTB
MC3361CDTBEL	, MC3361CDTBR2	, MC3372DTB	, MC33765DTB
MC33765DTBR2	, MC34184DTB	, MC34184DTBR2	, MC44353DTB
MC44353DTBR2	, MC44354DTB	, MC44354DTBR2	, MC44355DTB
MC44355DTBR2	, MC44827BDTB	, MC44827BDTBR2	, MC44827DTB
MC44827DTBR2	, MC44871DTB	, MC44871DTBR2	, MC74AC00DT
MC74AC00DTEL	, MC74AC00DTR2	, MC74AC02DT	, MC74AC02DTEL
MC74AC02DTR2	, MC74AC04DT	, MC74AC04DTEL	, MC74AC04DTR2
MC74AC08DT	, MC74AC08DTEL	, MC74AC08DTR2	, MC74AC125DT
MC74AC125DTEL	, MC74AC125DTR2	, MC74AC138DT	, MC74AC138DTEL
MC74AC138DTR2	, MC74AC139DT	, MC74AC14DT	, MC74AC14DTEL
MC74AC14DTR2	, MC74AC157DT	, MC74AC157DTR2	, MC74AC174DT
MC74AC240DT	, MC74AC241DT	, MC74AC241DTR2	, MC74AC244DT
MC74AC244DTEL	, MC74AC244DTR2	, MC74AC245DT	, MC74AC245DTEL
MC74AC245DTR2	, MC74AC273DT	, MC74AC273DTR2	, MC74AC32DT
MC74AC32DTEL	, MC74AC32DTR2	, MC74AC373DT	, MC74AC373DTEL
MC74AC373DTR2	, MC74AC374DT	, MC74AC377DT	, MC74AC377DTR2
MC74AC541DT	, MC74AC541DTEL	, MC74AC541DTR2	, MC74AC573DT
MC74AC573DTEL	, MC74AC573DTR2	, MC74AC574DT	, MC74AC574DTEL
MC74AC574DTR2	, MC74AC640DT	, MC74AC640DTEL	, MC74AC74DT
MC74AC74DTEL	, MC74AC74DTR2	, MC74AC86DT	, MC74AC86DTEL
MC74ACT00DT	, MC74ACT00DTEL	, MC74ACT00DTR2	, MC74ACT02DT
MC74ACT02DTEL	, MC74ACT02DTR2	, MC74ACT04DT	, MC74ACT04DTEL
MC74ACT04DTR2	, MC74ACT05DT	, MC74ACT05DTR2	, MC74ACT08DT
MC74ACT08DTEL	, MC74ACT08DTR2	, MC74ACT10DT	, MC74ACT10DTR2
MC74ACT125DT	, MC74ACT125DTEL	, MC74ACT125DTR2	, MC74ACT138DT
MC74ACT139DT	, MC74ACT139DTEL	, MC74ACT14DT	, MC74ACT14DTEL
MC74ACT153DT	, MC74ACT153DTR2	, MC74ACT157DT	, MC74ACT157DTEL
MC74ACT157DTR2	, MC74ACT174DT	, MC74ACT174DTEL	, MC74ACT240DT
MC74ACT240DTEL	, MC74ACT241DT	, MC74ACT241DTR2	, MC74ACT244DT
MC74ACT244DTEL	, MC74ACT244DTR2	, MC74ACT245DT	, MC74ACT245DTEL

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MC74ACT245DTR2	, MC74ACT273DT	, MC74ACT273DTEL	, MC74ACT273DTR2
MC74ACT32DT	, MC74ACT32DTEL	, MC74ACT32DTR2	, MC74ACT373DT
MC74ACT373DTEL	, MC74ACT373DTR2	, MC74ACT374DT	, MC74ACT374DTEL
MC74ACT540DT	, MC74ACT540DTEL	, MC74ACT540DTR2	, MC74ACT541DT
MC74ACT541DTEL	, MC74ACT541DTR2	, MC74ACT573DT	, MC74ACT573DTEL
MC74ACT574DT	, MC74ACT574DTEL	, MC74ACT74DT	, MC74ACT74DTEL
MC74ACT74DTR2	, MC74ACT86DT	, MC74HC00ADT	, MC74HC00ADTEL
MC74HC00ADTR2	, MC74HC02ADT	, MC74HC02ADTEL	, MC74HC02ADTR2
MC74HC03ADT	, MC74HC03ADTEL	, MC74HC04ADT	, MC74HC04ADTEL
MC74HC04ADTR2	, MC74HC08ADT	, MC74HC08ADTEL	, MC74HC08ADTR2
MC74HC10DT	, MC74HC125ADT	, MC74HC125ADTEL	, MC74HC125ADTR2
MC74HC126ADT	, MC74HC126ADTEL	, MC74HC126ADTR2	, MC74HC132ADT
MC74HC132ADTEL	, MC74HC132ADTR2	, MC74HC138ADT	, MC74HC138ADTEL
MC74HC138ADTR2	, MC74HC139ADT	, MC74HC139ADTEL	, MC74HC14ADT
MC74HC14ADTEL	, MC74HC14ADTR2	, MC74HC157ADT	, MC74HC157ADTEL
MC74HC157ADTR2	, MC74HC164ADT	, MC74HC164ADTEL	, MC74HC164ADTR2
MC74HC165ADT	, MC74HC165ADTR2	, MC74HC165DTR2	, MC74HC174ADT
MC74HC174ADTEL	, MC74HC174ADTR2	, MC74HC175ADT	, MC74HC175ADTR2
MC74HC175DT	, MC74HC175DTR2	, MC74HC20DT	, MC74HC20DTEL
MC74HC240ADT	, MC74HC240ADTEL	, MC74HC240ADTR2	, MC74HC244ADT
MC74HC244ADTEL	, MC74HC244ADTR2	, MC74HC245ADT	, MC74HC245ADTEL
MC74HC245ADTR2	, MC74HC259DT	, MC74HC259DTR2	, MC74HC273ADT
MC74HC273ADTEL	, MC74HC273ADTR2	, MC74HC30DT	, MC74HC32ADT
MC74HC32ADTEL	, MC74HC32ADTR2	, MC74HC354ADT	, MC74HC354ADTR2
MC74HC365ADT	, MC74HC365ADTEL	, MC74HC365ADTR2	, MC74HC365DT
MC74HC365DTEL	, MC74HC365DTR2	, MC74HC367ADT	, MC74HC367ADTEL
MC74HC367ADTR2	, MC74HC373ADT	, MC74HC373ADTEL	, MC74HC373ADTR2
MC74HC374ADT	, MC74HC374ADTEL	, MC74HC374ADTR2	, MC74HC390ADT
MC74HC390ADTR2	, MC74HC390DTR2	, MC74HC393ADT	, MC74HC393ADTR2
MC74HC4020ADT	, MC74HC4020ADTEL	, MC74HC4020ADTR2	, MC74HC4024DT
MC74HC4040ADT	, MC74HC4040ADTEL	, MC74HC4046ADT	, MC74HC4046ADTR2
MC74HC4050DT	, MC74HC4050DTEL	, MC74HC4050DTR2	, MC74HC4051ADT
MC74HC4051ADTR2	, MC74HC4051DT	, MC74HC4051DTEL	, MC74HC4051DTR2
MC74HC4052ADT	, MC74HC4052ADTR2	, MC74HC4052DT	, MC74HC4052DTR2
MC74HC4053ADT	, MC74HC4053ADTR2	, MC74HC4053DT	, MC74HC4053DTEL
MC74HC4053DTR2	, MC74HC4060ADT	, MC74HC4060ADTEL	, MC74HC4060ADTR2
MC74HC4066ADT	, MC74HC4066ADTR2	, MC74HC4066DT	, MC74HC4066DTEL
MC74HC4066DTR2	, MC74HC4316ADT	, MC74HC4316ADTR2	, MC74HC4538ADT
MC74HC4538ADTEL	, MC74HC4538ADTR2	, MC74HC4851ADT	, MC74HC4851ADTR2
MC74HC4852ADT	, MC74HC4852ADTR2	, MC74HC533ADT	, MC74HC533ADTR2
MC74HC534ADT	, MC74HC534ADTR2	, MC74HC540ADT	, MC74HC540ADTEL
MC74HC541ADT	, MC74HC541ADTEL	, MC74HC541ADTR2	, MC74HC563ADT
MC74HC563ADTEL	, MC74HC563ADTR2	, MC74HC564ADT	, MC74HC564ADTEL
MC74HC564ADTR2	, MC74HC573ADT	, MC74HC573ADTEL	, MC74HC573ADTR2
MC74HC574ADT	, MC74HC574ADTR2	, MC74HC589ADT	, MC74HC589ADTR2
MC74HC595ADT	, MC74HC595ADTEL	, MC74HC595ADTR2	, MC74HC597ADT
MC74HC597ADTR2	, MC74HC640ADT	, MC74HC640ADTEL	, MC74HC688DT
MC74HC688DTR2	, MC74HC74ADT	, MC74HC74ADTEL	, MC74HC74ADTR2
MC74HC85DT	, MC74HC85DTR2	, MC74HC86ADT	, MC74HC86ADTEL
MC74HC86ADTR2	, MC74HCT00ADT	, MC74HCT00ADTR2	, MC74HCT04ADT
MC74HCT04ADTEL	, MC74HCT04ADTR2	, MC74HCT08ADT	, MC74HCT08ADTR2

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MC74HCT138ADT	, MC74HCT138ADTR2	, MC74HCT14ADT	, MC74HCT14ADTR2
MC74HCT240ADT	, MC74HCT240ADTR2	, MC74HCT244ADT	, MC74HCT244ADTEL
MC74HCT244ADTR2	, MC74HCT245ADT	, MC74HCT245ADTEL	, MC74HCT245ADTR2
MC74HCT273ADT	, MC74HCT273ADTR2	, MC74HCT32ADT	, MC74HCT32ADTEL
MC74HCT32ADTR2	, MC74HCT373ADT	, MC74HCT373ADTR2	, MC74HCT374ADT
MC74HCT374ADTR2	, MC74HCT541ADT	, MC74HCT541ADTR2	, MC74HCT573ADT
MC74HCT574ADT	, MC74HCT74ADT	, MC74HCU04ADT	, MC74HCU04ADTEL
MC74HCU04ADTR2	, MC74HCU04DTR2	, MC74LCX00DT	, MC74LCX00DTEL
MC74LCX00DTR2	, MC74LCX02DT	, MC74LCX02DTEL	, MC74LCX02DTR2
MC74LCX04DT	, MC74LCX04DTEL	, MC74LCX04DTR2	, MC74LCX04TDT
MC74LCX04TDTR2	, MC74LCX08DT	, MC74LCX08DTEL	, MC74LCX08DTR2
MC74LCX125DT	, MC74LCX125DTEL	, MC74LCX125DTR2	, MC74LCX138DT
MC74LCX138DTR2	, MC74LCX138TDT	, MC74LCX138TDTR2	, MC74LCX157DT
MC74LCX157DTR2	, MC74LCX157TDT	, MC74LCX157TDTR2	, MC74LCX240DT
MC74LCX240DTR2	, MC74LCX244DT	, MC74LCX244DTEL	, MC74LCX244DTR2
MC74LCX245DT	, MC74LCX245DTEL	, MC74LCX245DTR2	, MC74LCX257DT
MC74LCX257DTR2	, MC74LCX32DT	, MC74LCX32DTEL	, MC74LCX32DTR2
MC74LCX373DT	, MC74LCX373DTR2	, MC74LCX373TDT	, MC74LCX373TDTR2
MC74LCX374DT	, MC74LCX374DTR2	, MC74LCX540DT	, MC74LCX540DTEL
MC74LCX540TDT	, MC74LCX540TDTR2	, MC74LCX541DT	, MC74LCX541DTEL
MC74LCX541DTR2	, MC74LCX541TDT	, MC74LCX541TDTR2	, MC74LCX573DT
MC74LCX573DTEL	, MC74LCX573DTR2	, MC74LCX574DT	, MC74LCX574DTEL
MC74LCX574DTR2	, MC74LCX74DT	, MC74LCX74DTR2	, MC74LCX86DT
MC74LCX86DTR2	, MC74LCX86TDT	, MC74LCX86TDTR2	, MC74LVQ00DT
MC74LVQ00DTEL	, MC74LVQ00DTR2	, MC74LVQ04DT	, MC74LVQ04DTEL
MC74LVQ04DTR2	, MC74LVQ08DT	, MC74LVQ08DTR2	, MC74LVQ125DT
MC74LVQ125DTEL	, MC74LVQ125DTR2	, MC74LVQ138DT	, MC74LVQ138DTEL
MC74LVQ138DTR2	, MC74LVQ240DT	, MC74LVQ240DTEL	, MC74LVQ240DTR2
MC74LVQ244DT	, MC74LVQ244DTEL	, MC74LVQ244DTR2	, MC74LVQ245DT
MC74LVQ245DTEL	, MC74LVQ245DTR2	, MC74LVQ32DT	, MC74LVQ32DTR2
MC74LVQ373DT	, MC74LVQ373DTEL	, MC74LVQ373DTR2	, MC74LVQ374DT
MC74LVQ374DTEL	, MC74LVQ374DTR2	, MC74LVQ541DT	, MC74LVQ541DTEL
MC74LVQ541DTR2	, MC74LVQ573DT	, MC74LVQ573DTEL	, MC74LVQ573DTR2
MC74LVQ574DT	, MC74LVQ574DTEL	, MC74LVQ574DTR2	, MC74LVQ74DT
MC74LVX126DT	, MC74LVX126DTR2	, MC74LVX132DT	, MC74LVX132DTR2
MC74LVX139DT	, MC74LVX139DTR2	, MC74LVX240DT	, MC74LVX240DTR2
MC74LVX244DT	, MC74LVX244DTR2	, MC74LVX245DT	, MC74LVX245DTR2
MC74LVX373DT	, MC74LVX373DTR2	, MC74LVX374DT	, MC74LVX374DTR2
MC74LVX390DT	, MC74LVX390DTR2	, MC74LVX393DT	, MC74LVX393DTR2
MC74LVX540DT	, MC74LVX540DTR2	, MC74LVX541DT	, MC74LVX541DTR2
MC74LVX573DT	, MC74LVX573DTR2	, MC74LVX574DT	, MC74LVX574DTR2
MC74LVX595DT	, MC74LVX595DTR2	, MC74VHC00TEL	, MC74VHC02DTEL
MC74VHC04DTEL	, MC74VHC390DT	, MC74VHC390DTR2	, MC74VHC4051DT
MC74VHC4051DTR2	, MC74VHC4052DT	, MC74VHC4052DTR2	, MC74VHCT4066DT
MC74VHCT4066DTR2	, MC74VHCT74ADT	, MC74VHCT74ADTR2	, MCCS142237DT
MCCS142237DTR2	, MPC17A17DTB	, MPC17A17DTBEL	, MPC1850DTB
MPC1850DTBEL	, MRFIC0001	, MRFIC0001R2	, MRFIC0920R2
MRFIC1805R2	, MRFIC1814	, MRFIC1814R2	, PC112010DTB
PC112010DTBEL	, PC33491DTB	, PC33765DTB	, PC33765DTBR2
PC34281DT	, PC74LCX04TDT	, PC74LCX08CDT	, PC74LCX125DT
PC74LCX125TDT	, PC74LCX138DT	, PC74LCX157DT	, PC74LCX240BDT

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PC74LCX240CDT	,	PC74LCX240CDTR2	,	PC74LCX244BDT	,	PC74LCX244CDT
PC74LCX244CDTR2	,	PC74LCX244TDT	,	PC74LCX245BDT	,	PC74LCX32CDT
PC74LCX373BDT	,	PC74LCX373BDTR2	,	PC74LCX373DT	,	PC74LCX374BDT
PC74LCX374BDTR2	,	PC74LCX374DT	,	PC74LCX540TDT	,	PC74LCX541TDT
PC74LCX574TDT	,	PC74LCX86DT	,	PC765DTB-030	,	PO74AC139DT
PO74AC139DTR2	,	PO74HC132ADT	,	PO74HC132ADTR2	,	PO74HCT245ADT
PO74HCT245ADTR2	,	PRFIC0460R2	,	SC028MG053BDTER	,	SC036ACT244DTEL
SC036ACT574DTEL	,	SC111717DTB	,	SC111717DTBR2	,	SC111910DTB
SC111910DTBR2	,	SC371070DT	,	SC371070DTEL	,	SRFIC9Z67
TSC14051BDT	,	TSC14051BDTEL	,	TSC14051BDTR2	,	TSC14052BDT
TSC14052BDTEL	,	TSC14052BDTR2	,	TSC14053BDT	,	TSC14053BDTEL
TSC14053BDTR2	,	TSC14066BDT	,	TSC14066BDTR2	,	TSC74LCX244DTR2
TSC74LCX245DTR2	,	TY50000E	,	TY51043DTB	,	TY51043DTBR2
XC111910DTB	,	XC111910DTBR2	,	XC145482DT	,	XC145482DTR2
XC33347DTB	,	XC44871DTB	,	XPC17A17DTB	,	XPC17A17DTBEL
XRFIC0920R2	,	XRFIC1805	,	XRFIC1813	,	XRFIC1814
XRFIC1814R2	,	XYB44827DTBR2				