



Subject: Motorola PRODUCT BULLETIN 4659

TITLE: XQFP SHIPPING TRAY STANDARDIZATION (2 OF 4)

EFFECTIVE DATE: 16-JUN-99

AFFECTED CHANGE CATEGORIES  
Shipping/Packaging Materials

AFFECTED PRODUCT DIVISIONS  
GENERAL PURPOSE PRO

ADDITIONAL RELIABILITY DATA: Available  
Contact your local Motorola Sales Office.

Ref: RSLH10

SAMPLES: Contact Below  
Contact your local Motorola Sales Office.

Ref: RSLH10@email.sps.mot.com

For any questions concerning this notification:

REFERENCE: CLARE HAKEMAN

PHONE: (602) 413-3006

DISCLAIMER:

MOTOROLA CONSIDERS THIS CHANGE APPROVED UNLESS SPECIFIC CONDITIONS  
OF ACCEPTANCE ARE PROVIDED IN WRITING. TO DO SO, CONTACT YOUR LOCAL  
MOTOROLA SALES OFFICE.

GPCN FORMAT: CUSTOMER

DO NOT REPLY TO THIS MESSAGE.

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PRODUCT BULLETIN

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ISSUE DATE: 15-Jun-1999

NOTIFICATION #:4659

EFFECTIVE DATE: 16-Jun-1999

ISSUING DIVISION:SPS

DESCRIPTION AND PURPOSE

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Motorola is pleased to announce changes to the xQFP shipping trays that will accomplish the following:

1. Incorporate a self-aligning part-in-pocket feature for improved device handling.
2. Standardize the rated temperature capability for trays at 125 C.

These new trays will begin to ship after June 1, 1999. The conversion in the manufacturing areas will be complete by October 31, 1999. For a period of time after October 31, 1999, current trays and new trays may ship simultaneously until current finished goods inventories are depleted.

The suppliers of the new trays will be Peak International and ITW Camtex. Trays that are covered by this Product Bulletin will be used for the following packages:

PKG CODE	LEAD COUNT	DIMENSION (MM)	STYLE	PITCH (MM)
6015	44	10x10x2.0	QFP	0.8
6018	64	14x14x2.1	QFP	0.8
6020	80	14x14x2.1	QFP	0.65
6027	52	10x10x2.1	QFP	0.65
6089	48	7x7x1.4	LQFP	0.5
6099	240	32x32x3.8	QFP	0.5
6104	72	10x10x1.4	LQFP	0.5
6300	32	7x7x1.4	LQFP	0.8
8087	100	14x20x2.8	QFP	0.65
8100	160	28x28x3.6	QFP	0.65
8101	160	28x28x3.3	QFP	0.65
8102	160	28x28x3.3	QFP	0.65
8106	208	28x28x3.3	FQFP	0.5
8256	44	10x10x1.4	LQFP	0.8
8259	144	20x20x1.4	LQFP	0.5
8260	52	10x10x1.4	LQFP	0.65
8262	100	14x20x1.4	LQFP	0.65
8263	80	12x12x1.4	LQFP	0.5
8302	240	32x32x3.4	QFP	0.5
8426	64	10x10x1.4	LQFP	0.5

Dimensions of the trays (i.e. length, width, thickness, parts per tray, pocket location, etc.) will remain unchanged.

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PRODUCT BULLETIN

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QUALIFICATION PLAN

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In addition to the evaluation tests above, each manufacturing site will run qualification testing as noted below prior to implementation of the new trays:

1. Pocket Design - fit analysis
2. Material Specification
  - static control
  - flatness
  - shrinkge
  - out-gassing
  - sloughing
  - brittleness
3. Packing System Performance
  - drop test
  - vibration test
4. Handler Interface
  - test handler
  - vision systems
  - banders
  - ovens
  - moisture barrier bags
  - customer pick/place equipment

RELIABILITY DATA SUMMARY

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In selecting vendors for these standardized trays, the following valuations were completed:

1. Surface Resistivity
2. ESD using HBM
3. Sloughing Tests
4. Rated Temperature Test
5. Destruction Temperature Test
6. Vendor Drop Test
7. Motorola Drop Test
8. Equipment Acceptance Test (handlers, trim/form, pick/place)

The results of these tests are available upon request.

CHANGED PART IDENTIFICATION

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The temperature rating of the new trays, 125 degrees Celsius, will be marked on the end of each tray.

ADDITIONAL INFORMATION

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\*\*\*\*\* IMPORTANT INFORMATION \*\*\*\*\*

This Product Bulleting is one of four notifications announcing the xQFP Shipping Tray Standardization. Because of size limitations, customers may receive more than one product bulletin for this change. The difference between the notifications is the use of package codes which identify your product.

The four product bulletin notifications are: 4651, 4659, 4660, and 4661.

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PRODUCT BULLETIN

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ISSUE DATE: 15-Jun-1999

NOTIFICATION #:4659

EFFECTIVE DATE: 16-Jun-1999

ISSUING DIVISION:SPS

FILE FORMAT: ASCII TEXT

FONT - Courier

SIZE - 12 Point

LINE - 70 characters/line

PAGE - 55 lines/page

PAGEBREAK CHARACTER - ^L (Control L)

123456789|123456789|123456789|123456789|123456789|123456789|123456789|

AFFECTED DEVICE LIST (WITHOUT SPECIALS)

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BETSAM	, BETSAM2	, DSP56002PV40	, DSP56002PV66
DSP56002PV80	, DSP56005PV50	, DSP56L002PV40	, ENT38307CB18
GSCS38307CB19	, GXCS38307CB18	, GXCS38307CB19	, JSC02TH514BB41
JSC05MR514BB68	, JSC05PR514BB61	, JSC05PR547BB01	, JSC05TR514BB60
JSC74FT514BB62	, JSC74FT514BB65	, JSX05MR514BB68	, JSX74FT514BB62
JSX74FT514BB65	, JXC05MR514BB68	, JXC05PR514BB61	, JXC74FT514BB62
JXC74FT514BB65	, LPC440111PK	, LPC440115PK	, LPC440116PK
LSC05PR730CI01	, LSC05PR730CI02	, LSC412748FB	, LSC412751FB
LSC412752FB	, LSC423050FK	, LSC423050FKR2	, LSC423051FK
LSC423051FKR2	, LSC423252FB	, LSC423253FB	, LSC433338FB
LSC433359FB	, LSC433360FB	, LSC433371FB	, LSC433388CFB
LSC433390CFB	, LSC433399FB	, LSC433400FB	, LSC433417CFB
LSC433418CFB	, LSC433419CFB	, LSC438803FB	, LSC440120PK
LSC440150PK	, LSC440897FB	, LSC440900FB	, LSC440909FB
LSC440910FB	, LSC440912FB	, LSC526102FK	, LSC526102FKR2
LSC526123FK	, LSC526123FKR2	, LSC526124FK	, LSC526124FKR2
LSX05NR730CI01	, LSX05NR730CI02	, LSX05PR730CI01	, LSX05PR730CI02
LXC401776PKR2	, LXC401777PK	, LXC401778PK	, LXC401784PK
LXC401785PK	, LXC401789PK	, LXC401789PKR2	, LXC401790PK
LXC401790PKR2	, LXC401791PK	, LXC401791PKR2	, LXC411659FB
LXC411660FB	, LXC411661FB	, LXC414370PV	, MC143120E2FB
MC16Z1CPV16B1	, MC16Z1CPV20B1	, MC16Z1CPV25B1	, MC16Z1MPV16B1
MC16Z1PV16B1	, MC16Z1VPV16B1	, MC16Z1VPV20B1	, MC16Z2BCPV16B1
MC16Z2BCPV20B1	, MC16Z2BCPV25B1	, MC16Z3BCPV16B1	, MC16Z3BCPV20B1
MC16Z3BCPV25B1	, MC16Z3BMPV16B1	, MC16Z3BVPV16B1	, MC16Z3BVPV20B1
MC16Z3BVPV25B1	, MC16Z4CPV16B1	, MC439507VFT25	, MC44011FU
MC44200FU	, MC44251FU	, MC68302CPV16VC	, MC68302PV16C
MC68302PV16CB1	, MC68302PV16VC	, MC68302PV20C	, MC68302PV20CB1
MC68302PV25C	, MC68302PV33C	, MC68306PV16	, MC68306PV16A
MC68306PV16B	, MC68306PV20A	, MC68306PV20B	, MC68328CPV16A
MC68328CPV16VA	, MC68328PV16A	, MC68328PV16AB1	, MC68328PV16VA
MC68328PV16VAB1	, MC68328PV16VAR2	, MC68328PV20A	, MC68328PV20VA
MC68330CPV16A	, MC68330PV16A	, MC68330PV16VA	, MC68330PV25A
MC68331CPV16	, MC68331CPV16B1	, MC68331CPV20	, MC68331CPV20B1
MC68331CPV25	, MC68331CPV25B1	, MC68331MPV16	, MC68331MPV16B1
MC68331MPV20	, MC68331MPV20B1	, MC68331VPV16	, MC68331VPV16B1
MC68331VPV20	, MC68331VPV20B1	, MC68331VPV25	, MC68331VPV25B1
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MC68332ACPV25	, MC68332ACPV25B1	, MC68332AMPV16	, MC68332AMPV16B1
MC68332AMPV20	, MC68332AMPV20B1	, MC68332AVPV16	, MC68332AVPV16B1
MC68332AVPV20	, MC68332AVPV20B1	, MC68332AVPV25	, MC68332AVPV25B1
MC68332GCPV16	, MC68332GCPV16B1	, MC68332GCPV20	, MC68332GCPV20B1

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MC68332GMPV20 , MC68332GMPV20B1 , MC68332GVPV16 , MC68332GVPV16B1  
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MC68336GCFT25 , MC68336GCFT25B1 , MC68336GMFT20 , MC68336GMFT20T  
MC68336GVFT25 , MC68336GVFT25B1 , MC68338CPV14 , MC68338CPV16  
MC68340CPV16E , MC68340CPV25E , MC68340PV16E , MC68340PV16EB1  
MC68340PV16VE , MC68340PV25E , MC68340PV25EB1 , MC68340PVC  
MC68340PVE , MC68349CFT16A , MC68349FT16A , MC68349FT16VA  
MC68349FT25A , MC68349FTA , MC68376BACFT20 , MC68376BACFT25  
MC68376BACFT25B1 , MC68376BAMFT20 , MC68376BAMFT20B1 , MC68376BAVFT20B1  
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MC68376BGCFT25B1 , MC68376BGMFT20 , MC68376BGMFT20B , MC68376BGVFT20  
MC68376BGVFT20B1 , MC68376BGVFT25 , MC68376BGVFT25B1 , MC68848PV  
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MC68CK338CPV14 , MC68CK338CPV14B1 , MC68CM16Z1CPV16 , MC68F333ACFT16  
MC68F333ACFT16B1 , MC68F333AVFT16 , MC68F333AVFT16B1 , MC68F333GCFT16  
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MCF5102PV33B , MCF5102PV40B , MCF5102PVB , MCF5206CFT16  
MCF5206CFT25 , MCF5206ECFT40 , MCF5206EFT , MCF5206EFT40  
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MCF5206FT25 , MCF5206FT25B1 , MCF5206FT33 , MCF5206FT33B1  
MCF5307CFT66A , MCF5307FT66A , MCF5307FT90A , MCF5307FTA  
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MCM16Y1BAMFT16B1	, MCM16Y1BAVFT16	, MCM16Y1BAVFT16B1	, MCM16Y1BCFT16
MCM16Y1BGCFT16	, MCM16Y1BGCFT16B1	, MCM16Y1BGMFT16	, MCM16Y1BGMFT16B1
MCM16Y1BGVFT16	, MCM16Y1BGVFT16B1	, MCM16Y1GCFT16	, MCM16Y1GMFT16
MCM16Y1GVFT16	, MCT2100CI	, MPC1713FU	, MPC1715FB
MPC509L3CFT25	, MPC509L3CFT33	, MPC509LCFT25	, MPC509LCFT25B1
MPC509LCFT33	, MPC509LCFT33B1	, MX92305CI	, MX92800CB
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PC401500VFT16	, PC401501VFT16	, PC410994FB	, PC416701VFT16
PC550004HCPV16A	, PC56603PV60	, PC68306PV20A	, PC68328PV16A
PC68328PV16V	, PC68328PV16VA	, PC68376GMFT20	, PC68388PV25V
PC68EN302RC25B	, PC68F396BGVFT25	, PC68F396BGVFT25T	, PC68HC05PD6PK
PC68HC08PT48PK	, PC68HC705D32AFB	, PC68HC705F4FB	, PC68HC705G4PK
PC68HC708LN56PV	, PC68HC908GJ8FB	, PC68HC908GP32FB	, PC68HC908LN56PV
PC68HC908PT48PK	, PC68HC916Y6VFT25	, PCA2303CIPW	, PCA56362PV80
PCA56363FK100	, PCA56363FK80	, PCB56362PV80	, PCF40002CI
PCF5102PVB	, PCF5102PVS	, PCF5102PVT	, PCF5102PVY
PCF5102PVZ	, PCF5206EFT	, PCF5206FT	, PCF5244PV
PCF5307CFT66A	, PCF5307FT66A	, PCF5307FT90A	, PCF5307FTA
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PMC2003HCPV33A	, PPC509L3CFT25	, PPC908GP32CFB	, SC371053AFTA
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SC409341FB	, SC410994FB	, SC412439CFBR2	, SC412441CFBR2
SC412451FB	, SC412565CFBR2	, SC413073CFB2	, SC414253PV20A
SC414259CFT16A	, SC414259FT16VA	, SC414259FTA	, SC414294FT
SC414294FTB	, SC414324PV16	, SC414324PV16V	, SC414331PV16V
SC414332PV16	, SC414337PV16V	, SC414348PV16V	, SC414350PV16VE
SC414352PV	, SC414366PV16V	, SC414374PV	, SC414378PV16V
SC414385PV16V	, SC414415PV25C	, SC416272FB	, SC416780CPV16
SC416781CPV14	, SC423032FK	, SC423048FK	, SC423207FB
SC423267FNR2	, SC427220FB	, SC427378FB	, SC427407FB
SC427436CFB	, SC427436CFBR2	, SC431983CPV16	, SC433235FB
SC433288FB	, SC433340FB	, SC433403CFBR2	, SC437708CPK
SC437708CPKR2	, SC437709CPK	, SC437709CPKR2	, SC439517MFT20
SC440856CFB	, SC444502CPKR2	, SC526132FKR2	, SC528002PKR2
SC923016CI	, SC93249VFT25	, SCF20011CI	, SCF40002CI
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SPAK302PV33C	, SPAK306PV16	, SPAK306PV16A	, SPAK306PV16B
SPAK306PV20A	, SPAK306PV20B	, SPAK328CPV16A	, SPAK328CPV16VA
SPAK328PV16	, SPAK328PV16A	, SPAK328PV16V	, SPAK328PV16VA
SPAK328PV20A	, SPAK328PV20VA	, SPAK330PV16A	, SPAK330PV25A
SPAK340PV16E	, SPAK340PV16VE	, SPAK340PV25E	, SPAK5102PV20A
SPAK5102PV25A	, SPAK5102PV33B	, SPAK5102PV40B	, SPAK5206ECFT40
SPAK5206EFT40	, SPAK5206EFT54	, SPAK5206FT16	, SPAK5206FT25
SPAK5206FT33	, SPAK5244PV	, SPAK5307CFT66	, SPAK5307FT66
SPAK5307FT90	, SPAK848PV	, SPAKA56362PV80	, SPAKB56362PV80
SPAKC56362PV80	, SPAKE56362PV100	, SPAKEN302PV20B	, SPAKEN302PV25B
SPAKHC705C4ACFB	, SPAKHC705C9ACFB	, SPAKPM302PV16B	, SPAKPM302PV16VB
SPAKPM302PV20B	, SPAKPM302PV25B	, SPAKQH302PV16C	, SPAKQH302PV20C
SPAKQH302PV25C	, SPAKXC56603APV60	, SPAKXC56603PV60	, SPC1718FU
SPMC68L11D0CFB2	, SPX2001HRDCPV16A	, SPXMC2001HDCPV16	, SSP26202GC66
SSP26202GC66R2	, SSP26202GC80R2	, SSP26300PV66	, SSP26900PV100
SSP27014PV60	, SSP27016GC60	, SSP27016PV60	, SSP56603APV60
SX923016CI	, SXF20011CI	, XC143120FE2FB	, XC143120LE2FB
XC370737FU	, XC550007HCPV16A	, XC550008HCPV16A	, XC550008HCPV16B
XC56302PV66	, XC56303GC66C	, XC56303GC80C	, XC56303PV
XC56303PV100B	, XC56303PV100C	, XC56303PV66	, XC56303PV66B
XC56303PV66B1	, XC56303PV66C	, XC56303PV80	, XC56303PV80B
XC56303PV80B1	, XC56303PV80C	, XC56303PVB	, XC56309PV
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XC68336FT20 , XC68336GMFT20 , XC68336GMFT20T , XC68336GVFT16  
XC68336GVFT25 , XC68336MFT20 , XC68336VFT16 , XC68338CPV14  
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XC68376BGMFT20B , XC68376BGMFT20T , XC68376GMFT20 , XC68388PV25V  
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XC68F333GCFT16 , XC68F333GCFT16B1 , XC68F396BGVFT25 , XC68F396BGVFT25T  
XC68HC05C0CFB , XC68HC05C0FB , XC68HC05CT4FB , XC68HC05L23PV  
XC68HC08LN56PV , XC68HC16Y3CFT16 , XC68HC16Y3VFT16 , XC68HC705C8ACFB  
XC68HC705C9ACFB , XC68HC705CCVFB , XC68HC705E6CFB , XC68HC705E6FB  
XC68HC705P3FB , XC68HC708LN56PV , XC68HC711D3FB , XC68HC908GP20CFB  
XC68HC916Y5VFT25 , XC68HCH708LN56PV , XC68HSC05C12FB , XC68HSC705C9AFB  
XC68PM302CPV16B , XC68PM302CPV20B , XC68PM302PV16B , XC68PM302PV16VB  
XC68PM302PV20B , XC68PM302PV20VB , XC68PM302PV25B , XCA56362PV80  
XCB56362PV100 , XCB56362PV80 , XCC56362PV100 , XCC56362PV80  
XCCK16Z4CPV16B1 , XCD56362PV100 , XCD56362PV80 , XCE56362PV100  
XCE56362PV80 , XCF20011CI , XCF40002CI , XCF5102PV20AB1  
XCF5102PV25A , XCF5102PVA , XCF5206ECFT40 , XCF5206EFT  
XCF5206EFT40 , XCF5206EFT54 , XCF5206FT , XCF5206FT16  
XCF5206FT25 , XCF5206FT25B1 , XCF5206FT33 , XCF5244PV  
XCF5307CFT66 , XCF5307CFT66A , XCF5307FT , XCF5307FT66  
XCF5307FT66A , XCF5307FT90 , XCF5307FT90A , XCF5307FTA  
XCM916Y1ACFT16 , XCM916Y1ACFT16B1 , XCM916Y1GCFT16 , XCM916Y1GCFT16B1  
XCT2100CI , XMC2001HCPV , XMC2001HDCPV16 , XMC2001HRDCPV16A  
XMC2003HCPV , XPC505FT25 , ZC423192CFBR2