



Subject: Motorola PRODUCT BULLETIN 4660

TITLE: XQFP SHIPPING TRAY STANDARDIZATION (3 OF 4)

EFFECTIVE DATE: 16-JUN-99

AFFECTED CHANGE CATEGORIES

Shipping/Packaging Materials

AFFECTED PRODUCT DIVISIONS

FAST STATIC RAMS	DYNAMIC MEMORIES	NETWORK SYS
STORAGE/IMAGING SYS	AMCU - NOW POWERTRAWIRELESS	SUBSCRIBER
COMM, TRANS, ACCESS	POWERTRAIN SYS	NEW VENTURE DEV OPS
ADV DIGITAL CONSUME	POWER PRODUCTS DIV	SENSOR DIV
WIRELESS INFRASTRUC	OPTO SIGNAL DIV	BODY ELEC/STRAT IND
SAFETY/CHASSIS SYS	SMART INFORMATION	TMESSAGING SYS
WIRELESS RF/IF	DISPLAYS/MONITORS	GENERAL PURPOSE PRO
TSG MISC	PERSONAL COMPUTING	NCSG MISC
NONVOLATILE MEMORIE	NEW MEDIA SYS	PERSONAL AND PC MED
CSG MISC	WSSG MISC	CONS BROADCAST

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.

PRODUCT BULLETIN

ISSUE DATE: 15-Jun-1999

NOTIFICATION #:4660

EFFECTIVE DATE: 16-Jun-1999

ISSUING DIVISION:SPS

DESCRIPTION AND PURPOSE

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 degrees Celsius.

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	DIMENSIONS (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	FQFP	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.

QUALIFICATION PLAN

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
 - shrinkage

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ISSUING DIVISION:SPS

- out-gassing
- sloughing
- brittleness
- 3. Packing System Performance
 - drop test
- 4. Handler Interface
 - test handler
 - vision systems
 - banders
 - ovens
 - moisture barrier bags
 - customer pick/place equipment

RELIABILITY DATA SUMMARY

In selecting vendors for these standardized trays, the following evaluations 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

The temperature rating of the new trays (125 deg C) will be marked on the end of each tray.

ADDITIONAL INFORMATION

***** IMPORTANT INFORMATION *****

This Product Bulletin 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.

PRODUCT BULLETIN

ISSUE DATE: 15-Jun-1999

NOTIFICATION #: 4660

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)

AFFECTED DEVICE LIST (WITHOUT SPECIALS)

96SC410059FU	, DSP56004FJ50	, DSP56004FJ66	, DSP56004FJ66R2
DSPB56007FJ50	, DSPB56007FJ66	, DSPE56007FJ66	, DSPE56009FJ81
DSPF56009FJ81	, DSPH56009FJ81	, DSPI56009FJ81	, ENG63F733BTQ
ENG63F837TQ	, ENG63F837ZP	, ENG63F919TQ	, ENG63P636ATQ
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ENG63P733BTQ	, ENG63P737ATQ	, ENG63P833TQ	, ENG63P836TQ
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XCM63P837TQ225R , XCM63P837ZP , XCM63P837ZP200 , XCM63P837ZP200R
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