



Subject: Motorola PRODUCT AND PROCESS CHANGE NOTIFICATION 4436

TITLE: ANALOG IC DPACK ASSEMBLY/SITE QUALIFICATION FOR PSI PHILIPPINES

EFFECTIVE DATE: 21-MAY-99

AFFECTED CHANGE CATEGORIES

Subcontractor Assembly Site

Subcontractor Test Site

AFFECTED PRODUCT DIVISIONS

GENERAL PURPOSE PRO

ADDITIONAL RELIABILITY DATA: None

Ref: TTT490

SAMPLES: No

Ref: TTT490@email.sps.mot.com

For any questions concerning this notification:

REFERENCE: MARK LEVSHIN

PHONE: 602-413-7996

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: 09-Feb-1999

NOTIFICATION #:4436

EFFECTIVE DATE: 21-May-1999

ISSUING DIVISION:PHX-GPPD

DESCRIPTION AND PURPOSE

The purpose of this change is to expand Analog IC DPACK manufacturing capacity at the PSI Manila, Philippines location. This site is currently qualified for Assembly and Test. This is a site change only, and should have no adverse impact to the customer. There is no change to the assembly flow, process, die or final test. This additional DPACK capacity will supplement and be in addition to the current Motorola Seremban capacity.

QUALIFICATION PLAN

Refer to the Reliability Data.

RELIABILITY DATA SUMMARY

Reliability Tests and Results:

Performed on Device: MC33269DT-3.3, Product Line: REGT6933

Performed on Device: LM317T

Performed on Device: MC78M05CDT

TEST	CONDITION	DURATION	REJ/SIZE
HTOL	125 C/VCC	504 HR	0/240
	125 C/VCC	1008 HR	0/239
MSL 1:			
A. TEMP CYCLING PRE-CONDITIONING			
	-65 C - 150 C	500 CYC	0/240
	-65 C - 150 C	1000 CYC	0/240
B. AUTOCLAVE PRE-CONDITIONING			
	121 C/15PSIG	96 HR	0/240
C. H3TRB PRE-CONDITIONING			
	85 C/85%	504 HR	0/80
	85 C/85%	1008 HR	ex. compl. ww5,99
HIGH TEMP STOR	150 C	500 HR	0/240
		1000 HR	0/240
SOLDER HEAT	Per 12MSB17722C		0/30
WIREPULL	Per 12MSB17722C		0/30
DIE SHEAR	Per 12MSB17722C		0/15*
PHYSICAL	Per 12MSB17722C		0/30

*substituted by Die Flick test

All tests were performed by Motorola KLM and PHX

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ELECTRICAL CHARACTERISTIC SUMMARY

Since this is an assembly/test site change only, there is no change to the die.

CHANGED PART IDENTIFICATION

Parts manufactured at PSI will have the marking "CQ" near the datecode.

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)

LM2931ADT-1-5.0 , LM2931ADT-5.0 , LM2931ADT-5.0RK , LM2931DT-5.0
LM317MABDT , LM317MABDTRK , LM317MADTRK , LM317MBDT
LM317MBDTRK , LM317MDT , LM317MDT-001 , LM317MDTRK
LP2950ACDT-3.0 , LP2950ACDT-3.0RK , LP2950ACDT-3.3 , LP2950ACDT-3.3RK
LP2950ACDT-5.0 , LP2950ACDT-5.0RK , LP2950CDT-3.0 , LP2950CDT-3.0RK
LP2950CDT-3.3 , LP2950CDT-3.3RK , LP2950CDT-5.0 , MC33269DT
MC33269DT-012 , MC33269DT-3.3 , MC33269DT-5.0 , MC33269DTRK
MC33269DTRK-012 , MC33269DTRK-3.3 , MC33269DTRK-5.0 , MC33275DT-2.5
MC33275DT-2.5RK , MC33275DT-3.0 , MC33275DT-3.0RK , MC33275DT-3.3
MC33275DT-3.3RK , MC33275DT-5.0 , MC33275DT-5.0RK , MC33769DT-3.3
MC34268DT , MC34268DTRK , MC78M05ACDT , MC78M05ACDTRK
MC78M05BDT , MC78M05BDT-001 , MC78M05BDTRK , MC78M05CDT
MC78M05CDT-001 , MC78M05CDTRK , MC78M06CDT , MC78M06CDTRK
MC78M08ACDT , MC78M08ACDTRK , MC78M08BDT , MC78M08BDTRK
MC78M08CDT , MC78M08CDTRK , MC78M09BDT , MC78M09BDTRK
MC78M09CDT , MC78M09CDT-001 , MC78M09CDTRK , MC78M12ACDT
MC78M12ACDTRK , MC78M12BDT , MC78M12BDTRK , MC78M12CDT
MC78M12CDT-001 , MC78M12CDTRK , MC78M15ACDT , MC78M15ACDTRK
MC78M15BDT , MC78M15BDTRK , MC78M15CDT , MC78M15CDT-001
MC78M15CDTRK , MC78M18CDT , MC79M05BDT , MC79M05BDTRK
MC79M05CDT , MC79M05CDT-001 , MC79M05CDTRK , MC79M08BDT
MC79M08CDT , MC79M08CDTRK , MC79M12BDT , MC79M12BDTRK
MC79M12CDT , MC79M12CDTRK , MC79M15BDT , MC79M15BDT-001
MC79M15BDTRK , MC79M15CDT , MC79M15CDT-001 , MC79M15CDTRK
SC78M05BDTRK , SC78M08CDTRK , SC901000DTRK , SC901002DTRK