



**ENHANCED SOLUTIONS
DESIGN/PROCESS CHANGE NOTIFICATION**

(formerly Military & Aerospace Division)

PCN Nr: 2000 Listing

Issued: 01/24/2000

GIDEP Nr:	GIDEP Category:	TRB Nr:
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Product ID (Description):

Proposed Date of Change:

Description of Change:

Effect of Change:

Datasheet.Company

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts		

Other Ref: None

Associated Notes / Table(s):

Please note - [S] indicates PCN contains information also relating to Space Level Products

<u>PCN</u>	<u>Nr Date</u>	<u>Description</u>
MA2000-01	01/24/00	Standard -MLS Products [S]
MA2000-02	02/29/00	Q3FY00 Enhanced Solutions Obsolescence [S]
MA2000-02A	03/01/00	Q3FY00 Enhanced Solutions Obsolescence - Amendment A [S]
MA2000-03	03/16/00	Microsemi (Sertech) Assembly Plant Code
MA2000-04	04/11/00	Analog Backgrind & Backside Metalization Transfer [S]
MA2000-05	05/24/00	Q4FY00 Enhanced Solutions Obsolescence [S]
MA2000-06	06/22/00	Datecode Marking Error (LM101A / LM748)
MA2000-07	06/26/00	Gold Lid, Solder Seal Package Process Change [S]
MA2000-08	08/01/00	FACT 2.0u Burn-In Reduction
MA2000-09	08/01/00	DS26LS31 Burn-In Reduction
MA2000-10	08/01/00	LM124 Burn-In Reduction
MA2000-11	08/02/00	LM6142AMJ-QML Test Limit Changes
MA2000-12	08/03/00	LMC555J/883 Test Limit Changes
MA2000-13	08/11/00	LM135 / 136 Wafer Fab Transfer (UK1 to UK3) [S]
MA2000-14	08/16/00	LFAST NSUK 6" 0.5% CuAl Metalization (Levels V & RH) [S]
MA2000-15	08/30/00	Q1FY01 Enhanced Solutions Obsolescence [S]
MA2000-16	09/01/00	Fairchild 4" Wafer Passivation Process - Logic [S]
MA2000-17	09/28/00	Selective Analog - Scotland to Texas Fab Transfer [S]
MA2000-18	09/29/00	Selective Analog - Scotland Fab1 to Fab3 Transfer [S]
MA2000-18A	10/16/00	Selective Analog-Scotland Fab1 to Fab3 Transfer-Amend A [S]
MA2000-19	10/16/00	Selective Analog-Scotland to Texas Fab Transfer/Die Shrinks[S]
MA2000-20	10/27/00	Selective Analog - Scotland Fab1 to Fab3 Transfer [S]
MA2000-21	11/07/00	Selective Analog - Scotland to Texas Fab Transfer
MA2000-22	11/13/00	Selective Analog - Scotland Fab1 to Fab3 Transfer [S]
MA2000-23	11/29/00	Q2FY01 Enhanced Solutions Obsolescence [S]
MA2000-24	11/29/00	Selective Analog - Scotland Fab1 to Fab3 Transfer [S]
MA2000-25	12/14/00	LM117 Family - Scotland to Texas Fab Transfer [S]
MA2000-26	12/14/00	DS16F95 Family - Scotland to Texas Fab Transfer [S]
MA2000-27	12/22/00	LM185 Family - Scotland to Texas Fab transfer [S]



ENHANCED SOLUTIONS DESIGN/PROCESS CHANGE NOTIFICATION

(formerly Military & Aerospace Division)

PCN Nr: MA2000-01

Issued: 01/24/2000

GIDEP Nr: AH6-C-00-06	GIDEP Category:	TRB Nr:
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Product ID (Description):

Standard -MLS Products

Proposed Date of Change:

February 1, 2000

Description of Change:

MAS-2-011 Revision B to Revision C

OPTIMIZATION/ ELIMINATION OF SELECTED TESTS

"Standard MLS" are products procured to National's Document MAS-2-011. This document defines the requirements for screening, processing and quality conformance testing of IC's for applications in Space or similar environments for which there is no source control drawing. New revision C incorporates alternative processing that has been previously approved for our standard JAN S and QMLV products.

These changes do NOT apply to -MLS device types with specific customer drawing requirements.

See Table I for a detailed description of the selected tests that have been optimized or eliminated.

Additional minor changes to add appropriate verbiage for test modifications and to correct inconsistencies are not described herein, but may be obtained by requesting a copy of subject document from the contacts shown below.

Effect of Change:

Standardization of Level S processing

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1495 Email: petra.pavel@nsc.com

Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Susan Davis Space Level Manager Tel: (408) 721-3161 email: susan.davis@nsc.com	

Other Ref: None

Associated Notes / Table(s):

TABLE I **MLS TEST OPTIMIZATION**

Test Optimization	GIDEP and PCN Number	Description of Change
Elimination of -55C electrical test on FACT Products	GIDEP: AH6-C-97-12 PCN: MA97013	Elimination of -55C DC and AC 100% production test and Group A sample test on –MLS FACT family. Product families effected: AC ACT ACQ ACTQ FCT SCAN logic products.
Modification of metallization step coverage on Interface product	GIDEP: AH6-C-97-14 PCN: MA97021	Modified metallization step coverage criteria from 50% to a minimum of 30% (remaining metallization) for selected S level Interface products: DS16F95 DS26F31 DS26F32 DS96F172 DS96F173 DS96F174 DS96F175
Modification of SEM wafer sampling plan for FACT, FAST, LPS and TTL products.	GIDEP: AH6-C-98-11 PCN: MA98017	Reduced the required number of wafers pulled from each wafer lot for SEM inspection from 2 per metal layer to 1 per metal layer. Product families effected: FACT FAST LPS TTL
FACT MLS Static Burn-In reduction	GIDEP: AH6-C-98-13 PCN: MA98019	Removed Static Low Burn-In (inputs tied to GND) on FACT product. Static High and dynamic Burn-In remain unchanged. Customer SCD requirements may override this BI reduction.
Thermal Stability change to in-line process monitor	GIDEP: AH6-C-00-02 PCN: MA99025	Changed Thermal Stability testing on each specific wafer lot as required by wafer lot acceptance per Method 5007 to an in-line process monitor.



ENHANCED SOLUTIONS
DESIGN/PROCESS CHANGE NOTIFICATION
(formerly Military & Aerospace Division)

PCN Nr: MA2000-02

Issued: 02/29/2000

GIDEP Nr: AH6-D-00-04	GIDEP Category: DMSMS	TRB Nr:
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Product ID (Description):

TABLE I - Packaged Product
TABLE II - Die sales Managed by Enhanced Solutions

Proposed Date of Change:

Lifetime buy purchase orders will be accepted until **6 March 2001**.

Description of Change:

PRODUCT OBSOLESCENCE

National Semiconductor wishes to inform you that the devices listed in Tables I & II are being discontinued. The decision to obsolete these products was primarily due to low volume or minimal demand from our customer base.

Effect of Change:

While all best efforts will be made to ensure that product can be supplied for any order received during the Life Time Buy period, this cannot be guaranteed.

We would therefore advise that you do not wait until the last moment before placing your final orders.

Suggested alternate devices and manufacturers are viable at the time of publication of this document.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1495 Email: petra.pavel@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com

Other contacts	Mike Scott Enhanced Solutions Marketing (408) 721-5491 email: mike.scott@nsc.com Joe Steele Enhanced Solutions Sr. Eng. Manager (408) 721-3819 email: joe.steele@nsc.com Jacqueline Collard Die products Business Unit Marketing (207) 541-8760 email: jacqueline.l.collard@nsc.com	
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Other Ref: None

Associated Notes / Table(s):

Legend:

NSC = National Semiconductor

NA = None

TI = Texas Instruments

REI = Rochester Electronics

TABLE I				
			ALTERNATE	
S/S or SMD	NSID	ALTERNATE NSID	S/S OR SMD	SOURCE
	CLC109AJ-QML			NA
5962-9687601MPA	CLC111AJ-QML	CLC111AJP		NSC
	COPCG-AHR/V-MPC			NA
	COPCG-AHS/V-MPC			NA
	DM54LS14J/883	54F14DMQB	5962-8875201CA	NSC
	DM54LS164J/883	JD54LS164BCA	JM38510/30605BCA	NSC
	DM54LS165J/883	SNJ54LS165J		TI
	DM54LS193J/883	JD54LS193BEA	JM38510/31508BEA	NSC
	DM54LS299J/883	54F299DMQB		NSC
JM38510/30605B2A	JD54LS164B2A			REI
JM38510/10103SHA	JL101ASHA	JL101ASPA	JM38510/10103SPA	NSC
JM38510/10304B2A	JL111B2A	LM111E/883		NSC
	LM137HVH-MLS	LM137HVH-QMLV	5962-7703404VXA	NSC
	LM139AJ-MLS	LM139AJ-QMLV	5962-9673801VCA	NSC
5962-9453402QXA	LMC6484AMWG/883	LMC6484AMJ/883	5962-9453402MCA	NSC
	X2C3STZ-D3-MSP			NA
	X2C3UEU-V4-MSP			NA
	X2C4E18UXD/-MSP			NA
	X2C4PRU-E9-MSP			NA
	X2C4PSE-E9-MSP			NA
	X2C4QLJ-E9-MSP			NA

	X2C4QZQ-E9-MSP			NA
	X2C4RFL-E9-MSP			NA
	X2C4RLB-E9-MSP			NA
	X2C4RLC-E9-MSP			NA
	X2C4SJE-E9-MSP			NA
	X2C4S JL-E9-MSP			NA
	X2C4SJM-E9-MSP			NA
	X2C4TEA-E9-MSP			NA
	X2C4TEJ-E9-MSP			NA
	X2C8D3AEA/-MSP			NA
	X2C8D3XXX/-MIL			NA
	X2C8D3XXX/-MSP			NA
	XD12E14EIW/-MSP			NA
	XD12E14XXX/-MPR			NA
	XD12E14XXX/-MSP			NA
	XD60E15MJD/-MSP			NA
	XD60E15MJF/-MSP			NA
	XD60E15MJK/-MSP			NA
	XD60E15MJR/-MSP			NA
	XD60E15XXX/-MSP			NA
	XD60E16MJC/-MSP			NA
	XD60E16MJE/-MSP			NA
	XD60E16MJH/-MSP			NA
	XD60E16MJY/-MSP			NA
	XD60E16XXX/-MSP			NA
	XD60E17MJA/-MSP			NA
	XD60E17MJB/-MSP			NA
	XD60E17MJG/-MSP			NA
	XD60E17MJI/-MSP			NA
	XD60E17MJJ/-MSP			NA
	XD60E17MJL/-MSP			NA

	XD60E17MJN/ -MSP			NA
	XD60E17MJP/ -MSP			NA
	XD60E17MJQ/ -MSP			NA
	XD60E17MJT/ -MSP			NA
	XD60E17MJX/ -MSP			NA
	XD60E17MJZ/ -MSP			NA
	XD60E17XXX/ -MSP			NA
	XD61E17MJS/ -MSP			NA
	XDD2E1AEU/ -MSP			NA
	XDD2E1XXX/ -MSP			NA
	XDD4E14EBE/ -MSP			NA
	XDD4E14XXX/ -MPR			NA
	XDD4E14XXX/ -MSP			NA
	XDD8E9EBF/ -MSP			NA
	XDD8E9XXX/ -MSP			NA
TABLE II				
	DIE NAME	ALTERNATE NSID	SOURCE	
	CLC109 MDC		NONE	
	CLC412AMC	CLC412 MDC	NATIONAL	
	CLC415AMC	CLC415 MDC	NATIONAL	
	CLC420AMC	CLC420 MDC	NATIONAL	
	CLC426AMC	CLC426 MDC	NATIONAL	
	CLC449AMC	CLC449 MDC	NATIONAL	
	CLC502AMC	CLC502 MDC	NATIONAL	
	CLC505AMC	CLC505 MDC	NATIONAL	
	CLC522AMC	CLC522 MDC	NATIONAL	
	CLC532AMC	CLC532 MDC	NATIONAL	
	DS3695 MWC	DS3695AM	NATIONAL	

	DS36F95 MWC	DS36F95M	NATIONAL	
	LM117HVKG MW8	LM117HVK/883	NATIONAL	



ENHANCED SOLUTIONS
DESIGN/PROCESS CHANGE NOTIFICATION
(formerly Military & Aerospace Division)

PCN Nr: MA2000-02A

Issued: 03/01/2000

GIDEP Nr: AH6-D-00-04	GIDEP Category: DMSMS	TRB Nr:
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Product ID (Description):

TABLE I - Packaged Product

TABLE II - Die sales Managed by Enhanced Solutions

Amendment A dated 3/1/00:

The following devices have been removed from the attached obsolescence list and re-instated as orderable.

JM38510/10103SHA JL101ASHA

5962-9453402QXA LMC6484AMWG/883

LM137HVH-MLS

Proposed Date of Change:

Lifetime buy purchase orders will be accepted until **6 March 2001**.

Description of Change:

PRODUCT OBSOLESCENCE

National Semiconductor wishes to inform you that the devices listed in Tables I & II are being discontinued. The decision to obsolete these products was primarily due to low volume or minimal demand from our customer base.

Effect of Change:

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Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	<p>Mike Scott Enhanced Solutions Marketing (408) 721-5491 email: mike.scott@nsc.com</p> <p>Joe Steele Enhanced Solutions Sr. Eng. Manager (408) 721-3819 email: joe.steele@nsc.com</p> <p>Jacqueline Collard Die products Business Unit Marketing (207) 541-8760 email: jacqueline.l.collard@nsc.com</p>	

Other Ref: None

Associated Notes / Table(s):

TABLE I				
			ALTERNATE	
S/S or SMD	NSID	ALTERNATE NSID	S/S OR SMD	SOURCE
	CLC109AJ-QML			NA
5962-9687601MPA	CLC111AJ-QML	CLC111AJP		NSC
	COPCG-AHR/V-MPC			NA
	COPCG-AHS/V-MPC			NA
	DM54LS14J/883	54F14DMQB	5962-8875201CA	NSC
	DM54LS164J/883	JD54LS164BCA	JM38510/30605BCA	NSC
	DM54LS165J/883	SNJ54LS165J		TI
	DM54LS193J/883	JD54LS193BEA	JM38510/31508BEA	NSC
	DM54LS299J/883	54F299DMQB		NSC
JM38510/30605B2A	JD54LS164B2A			REI
JM38510/10304B2A	JL111B2A	LM111E/883		NSC
	LM139AJ-MLS	LM139AJ-QMLV	5962-9673801VCA	NSC
	X2C3STZ-D3-MSP			NA
	X2C3UEU-V4-MSP			NA
	X2C4E18UXD/-MSP			NA
	X2C4PRU-E9-MSP			NA
	X2C4PSE-E9-MSP			NA
	X2C4QLJ-E9-MSP			NA
	X2C4QZQ-E9-MSP			NA
	X2C4RFL-E9-MSP			NA
	X2C4RLB-E9-MSP			NA
	X2C4RLC-E9-MSP			NA
	X2C4SJE-E9-MSP			NA
	X2C4S JL-E9-MSP			NA

	X2C4SJM-E9-MSP			NA
	X2C4TEA-E9-MSP			NA
	X2C4TEJ-E9-MSP			NA
	X2C8D3AEA/-MSP			NA
	X2C8D3XXX/-MIL			NA
	X2C8D3XXX/-MSP			NA
	XD12E14EIW/-MSP			NA
	XD12E14XXX/-MPR			NA
	XD12E14XXX/-MSP			NA
	XD60E15MJD/-MSP			NA
	XD60E15MJF/-MSP			NA
	XD60E15MJK/-MSP			NA
	XD60E15MJR/-MSP			NA
	XD60E15XXX/-MSP			NA
	XD60E16MJC/-MSP			NA
	XD60E16MJE/-MSP			NA
	XD60E16MJH/-MSP			NA
	XD60E16MJY/-MSP			NA
	XD60E16XXX/-MSP			NA
	XD60E17MJA/-MSP			NA
	XD60E17MJB/-MSP			NA
	XD60E17MJG/-MSP			NA
	XD60E17MJI/-MSP			NA
	XD60E17MJJ/-MSP			NA
	XD60E17MJL/-MSP			NA
	XD60E17MJN/-MSP			NA
	XD60E17MJP/-MSP			NA
	XD60E17MJQ/-MSP			NA
	XD60E17MJT/-MSP			NA
	XD60E17MJX/-MSP			NA
	XD60E17MJZ/-MSP			NA

	XD60E17XXX/-MSP			NA
	XD61E17MJS/-MSP			NA
	XDD2E1AEU/-MSP			NA
	XDD2E1XXX/-MSP			NA
	XDD4E14EBE/-MSP			NA
	XDD4E14XXX/-MPR			NA
	XDD4E14XXX/-MSP			NA
	XDD8E9EBF/-MSP			NA
	XDD8E9XXX/-MSP			NA
TABLE II				
	DIE NAME	ALTERNATE NSID	SOURCE	
	CLC109 MDC		NONE	
	CLC412AMC	CLC412 MDC	NATIONAL	
	CLC415AMC	CLC415 MDC	NATIONAL	
	CLC420AMC	CLC420 MDC	NATIONAL	
	CLC426AMC	CLC426 MDC	NATIONAL	
	CLC449AMC	CLC449 MDC	NATIONAL	
	CLC502AMC	CLC502 MDC	NATIONAL	
	CLC505AMC	CLC505 MDC	NATIONAL	
	CLC522AMC	CLC522 MDC	NATIONAL	
	CLC532AMC	CLC532 MDC	NATIONAL	
	DS3695 MWC	DS3695AM	NATIONAL	
	DS36F95 MWC	DS36F95M	NATIONAL	
	LM117HVKG MW8	LM117HVK/883	NATIONAL	



ENHANCED SOLUTIONS
DESIGN/PROCESS CHANGE NOTIFICATION
(formerly Military & Aerospace Division)

PCN Nr: MA2000-03

Issued: 03/16/2000

GIDEP Nr: AH6-C-00-07	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

QML Level V, JAN S and MLS Metal Can Packaged Product

Proposed Date of Change:

March 2000 Datecode 0013 onward

Description of Change:

To align with the National corporate mark specification, the assembly plant code for Microsemi Corporation, Watertown, MA. (formerly Sertech Labs), will be changed from "T" to "X". Microsemi is a sub-contractor for National's QML Level V, JAN S and MLS products built in metal can packages. The new identifier will appear in the top mark and on the Certificate of Conformance (C of C).

Example:

N X9A9950
 5962-9879801VIA
 LM119H-QMLV

Effect of Change:

There is no change to the quality, reliability, and electrical performance of these products.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1495 Email: petra.pavel@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Susan Davis Space Level Manager Tel: (408) 721-3161 email: susan.davis@nsc.com	

Other Ref: None

Associated Notes / Table(s):

N/A



ENHANCED SOLUTIONS
DESIGN/PROCESS CHANGE NOTIFICATION
(formerly Military & Aerospace Division)

PCN Nr: MA2000-04

Issued: 04/11/2000

GIDEP Nr: AH6-C-00-08	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

Analog Products supplied as Military Packaged devices (ceramics and metal cans), Commercial Metal Can packaged devices and Military & Commercial Wafer/Die products.

Includes Military Product Assurance Levels S, B, Q and V and selected commercial products.

- Table I - Military Packaged Products
- Table II - Commercial Packaged Products
- Table III - Die Products

Proposed Date of Change:

April 2000

Description of Change:

Several Analog products (listed in the Tables I - III) require wafer thinning and gold backside metalization to provide maximum thermal performance. To continue the manufacture of these device types, we are transferring these processes from our current subcontractor (Fairchild Semiconductor, Cebu, Philippines) to the following subcontractors. Backgrind will transfer to Quality Backgrind and Backmetal Service, (QBBS Santa Clara, CA), and gold-back will transfer to Scientific Coating Lab (Santa Clara, CA).

Effect of Change:

Both new subcontractors have been approved by National Semiconductor's Audit department and their processes have been fully qualified by Enhanced Solutions.

The quality, reliability and interchangeability of these devices will not be adversely effected by these transfers.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1495 Email: petra.pavel@nsc.com

Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Larry McGee Analog Eng. Mgr. (408) 721-7231 email: larry.mcgee@nsc.com	

Other Ref: None

Associated Notes / Table(s):

Table I - Military Packaged Products		
<u>National Part Number</u>	<u>Slashsheet or Standard Microcircuit Drawing Number</u>	
JL109BXA	JM38510/10701BXA	
JL109BYA	JM38510/10701BYA	
JL117BXA	JM38510/11703BXA	
JL117BYA	JM38510/11704BYA	
JL117SXA	JM38510/11703SXA	
JL117SYA	JM38510/11704SYA	
JL120-12BXA	JM38510/11502BXA	
JL120-12BYA	JM38510/11506BYA	
JL120-15BXA	JM38510/11503BXA	
JL120-15BYA	JM38510/11507BYA	
JL120-15SXA	JM38510/11503SXA	
JL120-5BXA	JM38510/11501BXA	
JL120-5BYA	JM38510/11505BYA	
JL120-5SYA	JM38510/11505SYA	
JL137BXA	JM38510/11803BXA	
JL137BYA	JM38510/11804BYA	
JL137SXA	JM38510/11803SXA	
JL137SYA	JM38510/11804SYA	
JL140-12BXA	JM38510/10703BXA	

JL140-12BYA	JM38510/10707BYA	
JL140-12SXA	JM38510/10703SXA	
JL140-12SYA	JM38510/10707SYA	
JL140-15BXA	JM38510/10704BXA	
JL140-15BYA	JM38510/10708BYA	
JL140-24BYA	JM38510/10709BYA	
JL140-5BXA	JM38510/10702BXA	
JL140-5BYA	JM38510/10706BYA	
JL140-5SXA	JM38510/10702SXA	
JL140-5SYA	JM38510/10706SYA	
LM109H/883		
LM109K/883		
LM117E/883		
LM117H/883		
LM117HVVH/883		
LM117HVVH-MLS		
LM117HVK/883		
LM117HVK-MLS		
LM117K/883		
LM117WG/883		
LM120H-12/883		
LM120H-15/883		
LM120H-5.0/883		

LM120K-12/883		
LM120K-15/883		
LM120K-5.0/883		
LM123K/883		
LM129AH/883		
LM129AH-SMD	5962-8992101XA	
LM129BH/883		
LM135H-MIL		
LM135H-MLS		
LM136AH-2.5-MLS		
LM137AH/883		
LM137AK/883		
LM137H/883		
LM137H-SMD	7703403XA	
LM137HVH/883		
LM137HVH-MLS		
LM137HVH-QMLV	5962-7703404VA	
LM137HVH-SMD	7703404XA	
LM137HVK/883		
LM137HVK-SMD	7703404YA	
LM137K/883		
LM137K-SMD	7703403YA	
LM137WG/883		
LM137WG-MPR		
LM138K-MIL		
LM140H-12/883		
LM140H-15/883		

LM140H-5.0/883		
LM140K-12/883		
LM140K-15/883		
LM140K-5.0/883		
LM140LAH-12/883		
LM140LAH-15/883		
LM140LAH5.0/883		
LM150K/883	5962-8767501XA	
LM1575HVK12-QML	5962-9167302QXA	
LM1575HVK5-QML	5962-9167402QXA	
LM1575HVKAD-QML	5962-9167102QXA	
LM1575J-12-QML	5962-9167301QEA	
LM1575J-15-QML	5962-9167401QEA	
LM1575J-5.0-MPR		
LM1575J-5.0-QML	5962-9167201QEA	
LM1575J-ADJ-QML	5962-9167101MEA	
LM1575K-5.0-QML	5962-9167201MXA	

LM1575K-ADJ-QML	5962-9167101MXA	
LM1577K-ADJ/883	5962-921660MXA	
LM185BE/883		
LM185BH/883		
LM185BYH/883		
LM185BYH1.2-SMD	5962-8759405XA	
LM185BYH2.5/883		
LM185BYH2.5-MLS		
LM185BYH2.5-SMD	5962-8759406XA	
LM185BYH-SMD	5962-9091401MXA	

LM185E-1.2/883	5962-87594012A	
LM185H-1.2/883		
LM185H-1.2-MLS		
LM185H-1.2-SMD	5962-8759401XA	
LM185H-2.5/883		
LM185H-2.5-SMD	5962-8759402XA	
LM185WG-1.2/883		
LM185WG-1.2-MPR		
LM195H/883	5962-8777801XA	
LM195K/883	5962-8777801YA	
LM2940J-12/883	5962-9088401QEA	
LM2940J-15/883	5962-9088501QEA	
LM2940J-5.0/883	5962-8958701EA	
LM2940J-8.0/883	5962-9088301QEA	
LM2940WG-12/883	5962-9088401QXA	
LM2940WG-15/883	5962-9088501QXA	
LM2940WG5.0/883	5962-8958701XA	
LM2941J/883	5962-9166701QEA	
LM555H/883		
LM555J/883		
LM556J-MIL		

Table II -		Table III -
Commercial		Die Products
Packaged Products		
LM109H		LM117 MDA
LM109K STEEL		LM117H MWA
LM117H		LM117HG MW8
LM117HVH		LM117HVKG MW8
LM117K STEEL		LM117K MDS
LM120H-12		LM117KG MW8
LM120H-15		LM120HG-12 MW8
LM120H-5.0		LM120HG-15 MW8
LM123K STEEL		LM120KG-12 MD8
LM129AH		LM120KG-12 MW8
LM129BH		LM120KG-5 MD8
LM129CH		LM120KG-5 MW8
LM133K STEEL		LM137H MDA
LM135AH		LM137H MDS
LM135H		LM137H MWA
LM136AH-2.5		LM137KG MD8
LM136AH-5.0		LM137KG MW8
LM136H-2.5		LM138KG MW8
LM136H-5.0		LM140KG-12 MW8
LM137H		LM140KG-15 MW8
LM138K STEEL		LM140KG-5 MW8
LM140K-12		LM142AH-5.0 MW8
LM140K-15		LM2941 MD8

LM140K-5.0		LM309K MWC
LM140LAH-12		LM317H MWC
LM140LAH-15		LM317K MWC
LM140LAH-5.0		LM320H-12 MWC
LM150K STEEL		LM320HG-5 MWC
LM185BH		LM320K-12 MWC
LM185BXH-1.2		LM320KG-5 MWC
LM185BXH-2.5		LM325 MWC
LM185BYH		LM329 MWC
LM185BYH-1.2		LM335 MWC
LM185BYH-2.5		LM337H MWC
LM185H-1.2		LM337K MWC
LM185H-2.5		LM338 MWC
LM235AH		LM340G-12 MWC
LM235H		LM340G-15 MWC
LM236AH-2.5		LM340G-5 MWC
LM236AH-5.0		LM342A-12 MWC
LM236H-2.5		LM35 MWC
LM236H-5.0		LM385-1.2 MWC
LM285BXH-1.2		LM385-2.5 MWC
LM285BYH-2.5		LM150G MW8
LM285H-1.2		

LM285H-2.5		
LM309H		
LM309K STEEL		
LM317AH		
LM317H		
LM317HVH		
LM317HVK STEEL		
LM317K STEEL		
LM320H-12		
LM320H-15		
LM320H-5.0		
LM320K-12		
LM320K-15		
LM323AK STEEL		
LM323K STEEL		
LM325H		
LM329AH		
LM329BH		
LM329CH		
LM329DH		
LM333K STEEL		
LM335AH		
LM335H		
LM337H		
LM337HVH		
LM337HVK STEEL		
LM337K STEEL		

LM338K STEEL		
LM340K-12		
LM340K-15		
LM340K-5.0		
LM340LAH-12		
LM340LAH-5.0		
LM34AH		
LM34CAH		
LM34CH		
LM34DH		
LM34H		
LM350K STEEL		
LM35AH		
LM35CAH		
LM35CH		
LM35DH		
LM35H		
LM78M05CH		
LM78M12CH		
LM78M15CH		



ENHANCED SOLUTIONS
DESIGN/PROCESS CHANGE NOTIFICATION
(formerly Military & Aerospace Division)

PCN Nr: MA2000-05

Issued: 05/24/2000

GIDEP Nr: AH6-D-00-05	GIDEP Category: DMSMS	TRB Nr:
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Product ID (Description):

- TABLE I - Military Packaged Product
- TABLE II - Commercial Packaged Product Managed by Enhanced Solutions
- TABLE III - Die Products Managed by Enhanced Solutions

Proposed Date of Change:

Lifetime buy purchase orders will be accepted until **7 JUNE 2001**.

Description of Change:

PRODUCT OBSOLESCENCE

National Semiconductor wishes to inform you that the devices listed in Tables I, II & III are being discontinued. The decision to obsolete these products was primarily due to low volume or minimal demand from our customer base.

Effect of Change:

While all best efforts will be made to ensure that product can be supplied for any order received during the Life Time Buy period, this cannot be guaranteed. We would therefore advise that you do not wait until the last moment before placing your final orders.

Suggested alternate devices and manufacturers are viable at the time of publication of this document.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1495 Email: petra.pavel@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com

Other contacts	<p>Mike Scott Enhanced Solutions Marketing (408) 721-5491 email: mike.scott@nsc.com</p> <p>Joe Steele Enhanced Solutions Sr. Eng. Manager (408) 721-3819 email: joe.steele@nsc.com</p> <p>Jacqueline Collard Die products Business Unit Marketing (207) 541-8760 email: jacqueline.l.collard@nsc.com</p>	
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Other Ref: None

Associated Notes / Table(s):

The first two columns are the product being obsoleted;
the last three are the suggested alternative and source.

TABLE I: Military Packaged Devices				
Obsolete Part #	SMD #	Alternate Part #	SMD #	Alternate Source
11C90DMQB.		11C91DMQB.		NATIONAL
DS96F174MJ-MLS		DS96F174MJ-QMLV	5962-9076502VEA	NATIONAL
DS96F175MJ-MLS		DS96F175MJ-QMLV	5962-9076601VEA	NATIONAL
GP7252-MIL				NONE
LF155AH-MLS		MP155		MICRO POWER
LF155AH/883		LF1055		LINEAR TECH
LF155H/883		PM155		ANALOG DEVICES
LM103H-3.6/883				NONE
LM108AW-MLS		LM108AW-QMLV-RH	5962R9863702VHA	NATIONAL
LM119J-MLS		LM119J-QMLV	5962-9679801VCA	NATIONAL
LM124WG/883	7704301XA	LM124AWG/883	7704302XA	NATIONAL
LM137AK/883		LM137K/883		NATIONAL
LM139W-MLS		LM139AW-QMLV	5962-9673801VDA	NATIONAL
LM1575HVK12-QML	5962-9167302QXA			NONE
LM1575HVKAD-QML	5962-9167102QXA			NONE
LM1575J-C5/883		LM1575J-5.0-QML	5962-9167201QEA	NATIONAL
LM1575J-CAD/883		LM1575J-ADJ-QML	5962-9167101MEA	NATIONAL
LM193H-MLS		LM193AH-QMLV	5962-9452602VGA	NATIONAL
LM431J-MLS				NONE

LM6164W-MLS		LM6164WG/883	5962-8962401XA	NATIONAL
MM9759-DD MPR				NONE
S50MAU6X-MPC				NONE
X2C3TQD-E4-MSP				NONE
X2C3UEU-EL-MSP				NONE

The first column is the product being obsoleted;
the third and fifth columns are the suggested alternative and source.

TABLE II: Commercial Packaged Devices				
Obsolete Part #		Alternate Part #		Alternate Source
CLC401AMC		CLC401AJE		NATIONAL
CLC402AMC		CLC402AJ		NATIONAL
CLC406AMC		CLC406AJE		NATIONAL
CLC407AMC				NONE
CLC409AMC		CLC409AJE		NATIONAL
LF155H		MP155		MICRO POWER
LF255H				NONE
LF355H				NONE
LM123K STEEL		LM123K/883		NATIONAL
LM133K STEEL		SG137		LINFINITY

The first column is the product being obsoleted;
the last three are the suggested alternative and source.

TABLE III: Die products				
Obsolete Part #		Alternate Part #	SMD #	Alternate Source
ADC0804 MWC		ADC0804LCN		NATIONAL
DS1776 MD8		DS1776E/883	5962-9231701M3A	NATIONAL
DS26F31 MDA		DS26LS31MJ/883		NATIONAL
LF355 MWC				NONE
LF442 MWC		LF442ACN		NATIONAL
LM111 MDS		LM111 MW8		NATIONAL
LM118 MW8		LM118H		NATIONAL
LM124 MDA		LM124 MW8		NATIONAL
LM139 MDA		LM139 MW8		NATIONAL
LM150G MW8		LM150G MD8		NATIONAL
LM158 MDS		LM158 MW8		NATIONAL
LM320H-12 MWC		LM320H-12		NATIONAL
LM320HG-5 MWC		LM320H-5.0		NATIONAL
LM338 MWC		LM338T		NATIONAL
LM555 MWC		LM555 MW8		NATIONAL
LM565 MWC		LM565 MDC		NATIONAL
LM7171 MDC		LM7171 MD8		NATIONAL
LM7171 MWC		LM7171 MD8		NATIONAL
LM7301 MWC		LM7301IM		NATIONAL
LMX2325 MDC		LMX2325TM		NATIONAL



ENHANCED SOLUTIONS DESIGN/PROCESS CHANGE NOTIFICATION

(formerly Military & Aerospace Division)

PCN Nr: MA2000-06

Issued: 06/22/2000

GIDEP Nr: AH6-P-00-02	GIDEP Category: Problem Advisory	TRB Nr:
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Product ID (Description):

LM101AH/883 and LM748H/883
(reference Table I for specific effected Lot Numbers)

Proposed Date of Change:

Datecode Error discovered in May 2000 ; Marking system was corrected.

Description of Change:

Due to a computer entry error, some LM101AH/883 and LM748H/883 production lots were marked and shipped with an incorrect die fabrication (wafer sort) date in the datecode.

They were marked with a 9D (1 DEC 99) instead of the correct mark of 7D (1 Dec 97).

National's datecode marking layout is as follows: **NS ZQQXXYYA**

NS = National logo

Z = Assembly Plant Code

QQ = Die Fabrication (Wafer Sort) Date

XX = Last two digits of the Calendar Year of Seal

YY = Seal Week

A = Alpha Character to identify subsequent inspection lots

The first character of the Die Fabrication (wafer sort) date is representative of the last digit of the year the wafer sort was performed. The second character shall be an alpha character (A, B, C, or D) to indicate the calendar quarter of the wafer sort. National chose wafer sort as the predesignated option point as allowed per MIL-PRF-38535 paragraph A.3.6.3.1. to represent die fabrication.

Effect of Change:

This marking error does not jeopardize the form, fit , function or reliability of the product.

Quality Conformance Inspection (QCI) was acceptable for both 7D and 9D timeframes. Therefore, National is issuing this Problem Advisory as an information only document.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1495 Email: petra.pavel@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts		

Other Ref: None

Associated Notes / Table(s):

TABLE I:

<u>NSID</u>	<u>LOT #</u>	<u>SHIPQTY</u>
LM101AH/883	9M8738D019	180
LM101AH/883	RG5506G027	480
LM101AH/883	RG5506G027	214
LM101AH/883	RG5506G027	236
LM101AH/883	RG6445G019	603
LM101AH/883	RG7215H019	93
LM101AH/883	RG7215H019	323
LM101AH/883	RH2677L019	169
LM101AH/883	RH5630L019	304
LM101AH/883	RH5630L019	180
LM101AH/883	RH5630L019	387
LM101AH/883	RH5630L019	180
LM101AH/883	RH6075H019	116
LM101AH/883	RH6075H019	527
LM101AH/883	RJ3172H027	62
LM101AH/883	RJ3172H027	172
LM101AH/883	RJ5552K019	200
LM101AH/883	RJ5552K019	320
LM748H/883	RH3952K019	184
LM748H/883	RH5201A019	187
LM748H/883	RH9679E019	72
LM748H/883	RH9679E019	160
LM748H/883	RH9679E019	454
LM748H/883	RJ0054G019	88
LM748H/883	RJ0054G019	200
LM748H/883	RJ0054G019	200



ENHANCED SOLUTIONS
DESIGN/PROCESS CHANGE NOTIFICATION
(formerly Military & Aerospace Division)

PCN Nr: MA2000-07

Issued: 06/26/2000

GIDEP Nr: AH6-C-00-09	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

All gold lid, solder seal packages. (Refer to Table I for Product Names)

Proposed Date of Change:

June 12, 2000

Description of Change:

National Semiconductor has changed a preseal cleaning process for gold lid, solder sealed packages. We have eliminated a preseal package deoxidation process because we found that there was negligible improvement in seal and solderability performance. There is no change in product quality or reliability performance based on Group D (Test Method 5005, Mil-Std-883) quality conformance inspection testing.

Effect of Change:

Process Change does not affect form, fit or function. There is no detectable difference between old or new process. Quality and reliability requirements and performance are unchanged.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1495 Email: petra.pavel@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Bill Petcher, Product Eng phone: (207)541-4597 email: bill.petcher@nsc.com	

Other Ref: None

Associated Notes / Table(s):

TABLE I

National Part Number	Package Type	National Part Number	Package Type	National Part Number	Package Type
54ABT240E-QML	DHLCC020	54AC251LMQB.	DHLCC020	54ACT174LMQB.	DHLCC020
54ABT241E-QML	DHLCC020	54AC251LMQB-RH	DHLCC020	54ACT175ERQMLV	DHLCC020
54ABT244E-QML	DHLCC020	54AC2525LMQB.	DHLCC020	54ACT175LMQB.	DHLCC020
54ABT244E-QMLV	DHLCC020	54AC253LMQB.	DHLCC020	54ACT175LMQB-RH	DHLCC020
54ABT245E-QML	DHLCC020	54AC257LMQB.	DHLCC020	54ACT240LMQB.	DHLCC020
54ABT273E-QML	DHLCC020	54AC258LMQB.	DHLCC020	54ACT241E-QMLV	DHLCC020
54ABT373E-QML	DHLCC020	54AC2708LMQB.	DHLCC028	54ACT241LMQB.	DHLCC020
54ABT374E-QML	DHLCC020	54AC273LMQB.	DHLCC020	54ACT244LMQB.	DHLCC020
54ABT377E-QML	DHLCC020	54AC280LMQB.	DHLCC020	54ACT245LMQB.	DHLCC020
54ABT541E-QML	DHLCC020	54AC299LMQB.	DHLCC020	54ACT251LMQB.	DHLCC020
54ABT543E-QML	DHLCC028	54AC32LMQB.	DHLCC020	54ACT2525LMQB.	DHLCC020
54ABT573E-QML	DHLCC020	54AC373LMQB.	DHLCC020	54ACT253LMQB.	DHLCC020
54ABT574E-QML	DHLCC020	54AC374LMQB.	DHLCC020	54ACT257ERQMLV	DHLCC020
54ABT646E-QML	DHLCC028	54AC377LMQB.	DHLCC020	54ACT257LMQB.	DHLCC020
54ABT652E-QML	DHLCC028	54AC520LMQB.	DHLCC020	54ACT257LMQB-RH	DHLCC020
54ABT899E-QML	DHLCC028	54AC521LMQB.	DHLCC020	54ACT258LMQB.	DHLCC020
54AC00LM.	DHLCC020	54AC540LMQB.	DHLCC020	54ACT283LMQB.	DHLCC020
54AC00LMQB.	DHLCC020	54AC541LMQB.	DHLCC020	54ACT299LMQB.	DHLCC020
54AC02LMQB.	DHLCC020	54AC574LMQB.	DHLCC020	54ACT323LMQB.	DHLCC020
54AC04LMQB.	DHLCC020	54AC646LMQB.	DHLCC028	54ACT373LMQB.	DHLCC020
54AC05LMQB.	DHLCC020	54AC646LMQB-RH	DHLCC028	54ACT374LMQB.	DHLCC020
54AC08LMQB.	DHLCC020	54AC74LM.	DHLCC020	54ACT377LMQB.	DHLCC020
54AC109LMQB.	DHLCC020	54AC74LMQB.	DHLCC020	54ACT399ERQMLV	DHLCC020
54AC10LMQB.	DHLCC020	54AC821LMQB.	DHLCC028	54ACT399LMQB.	DHLCC020
54AC11LMQB.	DHLCC020	54AC86LMQB.	DHLCC020	54ACT399LMQB-RH	DHLCC020
54AC138LMQB.	DHLCC020	54ACQ240LMQB.	DHLCC020	54ACT520LMQB.	DHLCC020
54AC139LMQB.	DHLCC020	54ACQ244LMQB.	DHLCC020	54ACT521LMQB.	DHLCC020
54AC14LMQB.	DHLCC020	54ACQ245LMQB.	DHLCC020	54ACT534LMQB.	DHLCC020
54AC151LMQB.	DHLCC020	54ACQ373LMQB.	DHLCC020	54ACT563LMQB.	DHLCC020
54AC153LMQB.	DHLCC020	54ACQ374LMQB.	DHLCC020	54ACT564LMQB.	DHLCC020
54AC157LMQB.	DHLCC020	54ACQ573LMQB.	DHLCC020	54ACT573LMQB.	DHLCC020
54AC158E-QMLV	DHLCC020	54ACT00LMQB.	DHLCC020	54ACT573LMQB-RH	DHLCC020
54AC158ERQMLV	DHLCC020	54ACT109ERQMLV	DHLCC020	54ACT574LMQB.	DHLCC020
54AC158LMQB.	DHLCC020	54ACT109LMQB.	DHLCC020	54ACT715LMQB.	DHLCC020
54AC161LMQB.	DHLCC020	54ACT109LMQB-RH	DHLCC020	54ACT715-RLMQB.	DHLCC020
54AC163LMQB.	DHLCC020	54ACT112LMQB.	DHLCC020	54ACT74LMQB.	DHLCC020
54AC169ERQMLV	DHLCC020	54ACT138LMQB.	DHLCC020	54ACT818LMQB.	DHLCC028
54AC169LM-MLS	DHLCC020	54ACT139LMQB.	DHLCC020	54ACT821LMQB.	DHLCC028
54AC169LMQB.	DHLCC020	54ACT151LMQB.	DHLCC020	54ACT823LMQB.	DHLCC028
54AC169LMQB-RH	DHLCC020	54ACT153LMQB.	DHLCC020	54ACT825LMQB.	DHLCC028
54AC174LMQB.	DHLCC020	54ACT157ERQMLV	DHLCC020	54ACT899LMQB.	DHLCC028
54AC175E-QMLV	DHLCC020	54ACT157LMQB.	DHLCC020	54ACTQ02LMQB.	DHLCC020
54AC175ERQMLV	DHLCC020	54ACT157LMQB-RH	DHLCC020	54ACTQ04E-QMLV	DHLCC020
54AC175LMQB.	DHLCC020	54ACT158LMQB.	DHLCC020	54ACTQ04LMQB.	DHLCC020
54AC191LMQB.	DHLCC020	54ACT161ERQMLV	DHLCC020	54ACTQ08ERQMLV	DHLCC020
54AC20LMQB.	DHLCC020	54ACT161LMQB.	DHLCC020	54ACTQ08LMQB.	DHLCC020
54AC240LMQB.	DHLCC020	54ACT161LMQB-RH	DHLCC020	54ACTQ08LMQB-RH	DHLCC020
54AC241LMQB.	DHLCC020	54ACT163ERQMLV	DHLCC020	54ACTQ10LMQB.	DHLCC020
54AC244LMQB.	DHLCC020	54ACT163LMQB.	DHLCC020	54ACTQ14LMQB.	DHLCC020
54AC245LMQB.	DHLCC020	54ACT163LMQB-RH	DHLCC020	54ACTQ240LMQB.	DHLCC020
54AC251ERQMLV	DHLCC020	54ACT169LMQB.	DHLCC020	54ACTQ241E-QMLV	DHLCC020

National Part Number	Package Type	National Part Number	Package Type	National Part Number	Package Type
54ACTQ241LMQB.	DHLCC020	54F181LMQB.	DHLCC028	54FCT377LMQB.	DHLCC020
54ACTQ244ERQMLV	DHLCC020	54F191LMQB.	DHLCC020	54FCT521LMQB.	DHLCC020
54ACTQ244LMQB.	DHLCC020	54F193LMQB.	DHLCC020	54FCT533LMQB.	DHLCC020
54ACTQ244LMQB-R	DHLCC020	54F194LMQB.	DHLCC020	54FCT540LMQB.	DHLCC020
54ACTQ245ERQMLV	DHLCC020	54F20LMQB.	DHLCC020	54FCT541LMQB.	DHLCC020
54ACTQ245LMQB.	DHLCC020	54F219LLQB.	DHLCC020	54FCT573LMQB.	DHLCC020
54ACTQ245LMQB-R	DHLCC020	54F219LMQB.	DHLCC020	54FCT574LMQB.	DHLCC020
54ACTQ273ERQMLV	DHLCC020	54F2244LMQB.	DHLCC020	54LCX244E-QML	DHLCC020
54ACTQ273LMQB.	DHLCC020	54F244LMQB.	DHLCC020	54LCX245E-QML	DHLCC020
54ACTQ273LMQB-R	DHLCC020	54F245LMQB.	DHLCC020	AR629AU9/883	DHPGA180
54ACTQ32ERQMLV	DHLCC020	54F251ALMQB.	DHLCC020	CL114S01D	DHDIP008
54ACTQ32LMQB.	DHLCC020	54F253LMQB.	DHLCC020	CL400S01F	DHDIP008
54ACTQ373LMQB.	DHLCC020	54F257ALMQB.	DHLCC020	CL400S09D	DHDIP008
54ACTQ374ERQMLV	DHLCC020	54F258ALMQB.	DHLCC020	CL401S01F	DHDIP014
54ACTQ374LMQB.	DHLCC020	54F273LMQB.	DHLCC020	CL404S02D	DHDIP008
54ACTQ374LMQB-R	DHLCC020	54F280LMQB.	DHLCC020	CL409S01D	DHDIP008
54ACTQ377LMQB.	DHLCC020	54F283LMQB.	DHLCC020	CL415S01D	DHDIP008
54ACTQ533LMQB.	DHLCC020	54F299LMQB.	DHLCC020	CL420S01H	DHDIP014
54ACTQ541E-QMLV	DHLCC020	54F32LMQB.	DHLCC020	CL420S03D	DHDIP008
54ACTQ541LMQB.	DHLCC020	54F373LMQB.	DHLCC020	CL425S01D	DHDIP008
54ACTQ543LMQB.	DHLCC028	54F374LMQB.	DHLCC020	CL425S02D	DHDIP008
54ACTQ544LMQB.	DHLCC028	54F377LMQB.	DHLCC020	CL426S01D	DHDIP008
54ACTQ573LMQB.	DHLCC020	54F379LMQB.	DHLCC020	CL501S01H	DHDIP014
54ACTQ574LMQB.	DHLCC020	54F38LMQB.	DHLCC020	CL501S02D	DHDIP008
54ACTQ646LMQB.	DHLCC028	54F398LMQB.	DHLCC020	CL501S02H	DHDIP014
54ACTQ657LMQB.	DHLCC028	54F399LMQB.	DHLCC020	CL501S03H	DHDIP014
54ACTQ821LMQB.	DHLCC028	54F402LMQB.	DHLCC020	CL502S03H	DHDIP014
54ACTQ827LMQB.	DHLCC028	54F521LMQB.	DHLCC020	CL502S04H	DHDIP014
54ACTQ841LMQB.	DHLCC028	54F533LMQB.	DHLCC020	CL505S12D	DHDIP008
54F00LMQB.	DHLCC020	54F534LMQB.	DHLCC020	CL520S01H	DHDIP014
54F02LMQB.	DHLCC020	54F544LMQB.	DHLCC028	CL520S03H	DHDIP014
54F04LMQB.	DHLCC020	54F573LMQB.	DHLCC020	CL532S01D	DHDIP014
54F08LMQB.	DHLCC020	54F646LMQB.	DHLCC028	CL532S02D	DHDIP014
54F109LMQB.	DHLCC020	54F648LMQB.	DHLCC028	CLC114AE-QML	DHLCC020
54F10LMQB.	DHLCC020	54F64LMQB.	DHLCC020	CLC400AE-QML	DHLCC020
54F11LMQB.	DHLCC020	54F652LMQB.	DHLCC028	CLC401AD-MLS	DHDIP008
54F132LMQB.	DHLCC020	54F74LMQB.	DHLCC020	CLC409AE-QML	DHLCC020
54F138LMQB.	DHLCC020	54F821LMQB.	DHLCC028	CLC412AE-QML	DHLCC020
54F139LMQB.	DHLCC020	54F823LMQB.	DHLCC028	CLC414AE-QML	DHLCC020
54F14LMQB.	DHLCC020	54F825LMQB.	DHLCC028	CLC420AE-QML	DHLCC020
54F151ALMQB.	DHLCC020	54F827LMQB.	DHLCC028	CLC420BE-QML	DHLCC020
54F153LMQB.	DHLCC020	54F86LMQB.	DHLCC020	CLC430AE-QML	DHLCC020
54F157ALMQB.	DHLCC020	54FCT138LMQB.	DHLCC020	CLC431AE-QML	DHLCC020
54F158ALMQB.	DHLCC020	54FCT240LMQB.	DHLCC020	CLC501AD-MLS	DHDIP008
54F161ALMQB.	DHLCC020	54FCT241LMQB.	DHLCC020	CLC502AD-MLS	DHDIP008
54F163ALMQB.	DHLCC020	54FCT244LMQB.	DHLCC020	CLC502AE-QML	DHLCC020
54F164ALMQB.	DHLCC020	54FCT245LMQB.	DHLCC020	CLC505AD-MLS	DHDIP008
54F169LMQB.	DHLCC020	54FCT273LMQB.	DHLCC020	CLC520AD-MLS	DHDIP014
54F174LMQB.	DHLCC020	54FCT373LMQB.	DHLCC020	CLC522AE-QML	DHLCC020
54F175LMQB.	DHLCC020	54FCT374LMQB.	DHLCC020	CLC532AE-QML	DHLCC020

National Part Number	Package Type	National Part Number	Package Type	National Part Number	Package Type
CLC533AE-QML	DHLCC020	JD54F02B2A	DHLCC020	JD54LS244B2A	DHLCC020
COP8SAC720Q3	DHDIP020	JD54F04B2A	DHLCC020	JD54LS259B2A	DHLCC020
COP8SAC728Q3	DHDIP028	JD54F08B2A	DHLCC020	JD54LS273B2A	DHLCC020
COP8SAC740Q3	DHDIP040	JD54F109B2A	DHLCC020	JD54LS283B2A	DHLCC020
COP8SAC740Q3	DEQJB044	JD54F10B2A	DHLCC020	JD54LS365B2A	DHLCC020
COP8SAC744J3	DEQJB044	JD54F11B2A	DHLCC020	JD54LS74B2A	DHLCC020
COP8SGR728Q3	DHDIP028	JD54F138B2A	DHLCC020	JL111B2A	DHLCC020
COP8SGR740Q3	DHDIP040	JD54F139B2A	DHLCC020	JL2951S2A	DHLCC020
COP8SGR740Q3	DEQJB044	JD54F151B2A	DHLCC020	JM54AC00B2A	DHLCC020
COP8SGR744J3	DEQJB044	JD54F153B2A	DHLCC020	JM54AC00B2A-RH	DHLCC020
DM54LS04E/883	DHLCC020	JD54F157B2A	DHLCC020	JM54AC00S2A-RH	DHLCC020
DM54LS138E/883	DHLCC020	JD54F161B2A	DHLCC020	JM54AC02B2A-RH	DHLCC020
DM54LS139E/883	DHLCC020	JD54F163B2A	DHLCC020	JM54AC02S2A	DHLCC020
DM54LS14E/883	DHLCC020	JD54F174B2A	DHLCC020	JM54AC02S2A-RH	DHLCC020
DM54LS193E/883	DHLCC020	JD54F175B2A	DHLCC020	JM54AC04B2A	DHLCC020
DM54LS20E/883	DHLCC020	JD54F244B2A	DHLCC020	JM54AC04B2A-RH	DHLCC020
DM54LS240E/883	DHLCC020	JD54F193B2A	DHLCC020	JM54AC04S2A	DHLCC020
DM54LS244E/883	DHLCC020	JD54F194B2A	DHLCC020	JM54AC04S2A-RH	DHLCC020
DM54LS245E/883	DHLCC020	JD54F20B2A	DHLCC020	JM54AC05B2A	DHLCC020
DM54LS257AE/883	DHLCC020	JD54F241B2A	DHLCC020	JM54AC05B2A-RH	DHLCC020
DM54LS299E/883	DHLCC020	JD54F244B2A	DHLCC020	JM54AC05S2A-RH	DHLCC020
DM54LS30E/883	DHLCC020	JD54F245B2A	DHLCC020	JM54AC08B2A	DHLCC020
DM54LS32E/883	DHLCC020	JD54F251B2A	DHLCC020	JM54AC08B2A-RH	DHLCC020
DM54LS374E/883	DHLCC020	JD54F253B2A	DHLCC020	JM54AC08S2A-RH	DHLCC020
DP8402AD	DHDIP052	JD54F257B2A	DHLCC020	JM54AC109B2A-RH	DHLCC020
DP8409AD-2	DHDIP048	JD54F258B2A	DHLCC020	JM54AC109S2A-RH	DHLCC020
DP8429D-70	DHDIP052	JD54F280B2A	DHLCC020	JM54AC10B2A-RH	DHLCC020
DS14C232E/883	DHLCC020	JD54F283B2A	DHLCC020	JM54AC10S2A-RH	DHLCC020
DS16F95E/883	DHLCC020	JD54F32B2A	DHLCC020	JM54AC11B2A	DHLCC020
DS1776E/883	DHLCC028	JD54F373B2A	DHLCC020	JM54AC11B2A-RH	DHLCC020
DS1776E-MIL	DHLCC028	JD54F374B2A	DHLCC020	JM54AC11S2A-RH	DHLCC020
DS26C31ME/883	DHLCC020	JD54F38B2A	DHLCC020	JM54AC125B2A	DHLCC020
DS26C32AME/883	DHLCC020	JD54F398B2A	DHLCC020	JM54AC125B2A-RH	DHLCC020
DS26F31ME/883	DHLCC020	JD54F399B2A	DHLCC020	JM54AC125S2A-RH	DHLCC020
DS26F32ME/883	DHLCC020	JD54F521B2A	DHLCC020	JM54AC138B2A	DHLCC020
DS26F32MEF-QML	DHLCC020	JD54F534B2A	DHLCC020	JM54AC138B2A-RH	DHLCC020
DS26LS31MEFQML	DHLCC020	JD54F573B2A	DHLCC020	JM54AC138S2A-RH	DHLCC020
DS26LS31ME-SMD	DHLCC020	JD54F64B2A	DHLCC020	JM54AC139B2A-RH	DHLCC020
DS26LS32ME/883	DHLCC020	JD54F74B2A	DHLCC020	JM54AC139S2A-RH	DHLCC020
DS90C031E-MIL	DHLCC020	JD54F86B2A	DHLCC020	JM54AC14B2A	DHLCC020
DS90C031E-QML	DHLCC020	JD54LS04B2A	DHLCC020	JM54AC14B2A-RH	DHLCC020
DS90C032E-MIL	DHLCC020	JD54LS05B2A	DHLCC020	JM54AC14S2A	DHLCC020
DS90C032E-QML	DHLCC020	JD54LS08B2A	DHLCC020	JM54AC14S2A-RH	DHLCC020
DS9622ME/883	DHLCC020	JD54LS10B2A	DHLCC020	JM54AC151B2A	DHLCC020
DS96F172ME/883	DHLCC020	JD54LS151B2A	DHLCC020	JM54AC151B2A-RH	DHLCC020
DS96F173ME/883	DHLCC020	JD54LS153B2A	DHLCC020	JM54AC151S2A	DHLCC020
DS96F174ME/883	DHLCC020	JD54LS157B2A	DHLCC020	JM54AC151S2A-RH	DHLCC020
DS96F175ME/883	DHLCC020	JD54LS161B2A	DHLCC020	JM54AC153B2A	DHLCC020
GVT72024A8-MPR	DHLCC032	JD54LS164B2A	DHLCC020	JM54AC153B2A-RH	DHLCC020
JD54F00B2A	DHLCC020	JD54LS240B2A	DHLCC020	JM54AC153S2A-RH	DHLCC020

National Part Number	Package Type	National Part Number	Package Type	National Part Number	Package Type
JM54AC157B2A	DHLCC020	JM54AC377S2A-RH	DHLCC020	LF11333D/883	DHDIP016
JM54AC157B2A-RH	DHLCC020	JM54AC520B2A-RH	DHLCC020	LF444MD/883	DHDIP014
JM54AC157S2A-RH	DHLCC020	JM54AC520S2A-RH	DHLCC020	LM111E/883	DHLCC020
JM54AC161B2A	DHLCC020	JM54AC521B2A	DHLCC020	LM111E-MLS	DHLCC020
JM54AC161B2A-RH	DHLCC020	JM54AC521B2A-RH	DHLCC020	LM117E/883	DHLCC020
JM54AC161S2A-RH	DHLCC020	JM54AC521S2A-RH	DHLCC020	LM119E/883	DHLCC020
JM54AC163B2A	DHLCC020	JM54AC541B2A	DHLCC020	LM119E-SMD	DHLCC020
JM54AC163B2A-RH	DHLCC020	JM54AC541B2A-RH	DHLCC020	LM124AE/883	DHLCC020
JM54AC163S2A-RH	DHLCC020	JM54AC541S2A-RH	DHLCC020	LM12H458MEL/883	DCQJB044
JM54AC174B2A-RH	DHLCC020	JM54AC574B2A	DHLCC020	LM12H458MEL-MCP	DCQJB044
JM54AC174S2A-RH	DHLCC020	JM54AC574B2A-RH	DHLCC020	LM139AE/883	DHLCC020
JM54AC191B2A-RH	DHLCC020	JM54AC574S2A-RH	DHLCC020	LM139AE-SMD	DHLCC020
JM54AC191S2A-RH	DHLCC020	JM54AC74B2A	DHLCC020	LM139E/883	DHLCC020
JM54AC20B2A-RH	DHLCC020	JM54AC74B2A-RH	DHLCC020	LM148E/883	DHLCC020
JM54AC20S2A-RH	DHLCC020	JM54AC74S2A	DHLCC020	LM185BE/883	DHLCC020
JM54AC240B2A	DHLCC020	JM54AC74S2A-RH	DHLCC020	LM185E-1.2/883	DHLCC020
JM54AC240B2A-RH	DHLCC020	JM54AC86B2A	DHLCC020	LM6118E/883	DHLCC020
JM54AC240S2A-RH	DHLCC020	JM54AC86B2A-RH	DHLCC020	LM6161E/883	DHLCC020
JM54AC241B2A	DHLCC020	JM54AC86S2A	DHLCC020	LM723E/883	DHLCC020
JM54AC241B2A-RH	DHLCC020	JM54AC86S2A-RH	DHLCC020	LP2951E/883	DHLCC020
JM54AC241S2A-RH	DHLCC020	JM54ACT00B2A	DHLCC020	MG6BD3MKD/883	DHDIP040
JM54AC244B2A	DHLCC020	JM54ACT00B2A-RH	DHLCC020	MG6BD3MKD-MCP	DHDIP040
JM54AC244B2A-RH	DHLCC020	JM54ACT00S2A-RH	DHLCC020	MG6BD4MKB/883	DHDIP014
JM54AC244S2A	DHLCC020	JM54ACT112B2A	DHLCC020	MG6BE21MKB/883	DHLCC020
JM54AC244S2A-RH	DHLCC020	JM54ACT112S2A	DHLCC020	MG6HUAMKI/883	DHPGA100
JM54AC245B2A	DHLCC020	JM54ACT138B2A-R	DHLCC020	MG6LE14MKT/883	DCQFP132
JM54AC245B2A-RH	DHLCC020	JM54ACT138S2A	DHLCC020	MG6LE14MKT-SCD	DCQFP132
JM54AC245S2A	DHLCC020	JM54ACT138S2A-R	DHLCC020	MG6NE18MKS/883	DCQFP172
JM54AC245S2A-RH	DHLCC020	JM54ACT151B2A-R	DHLCC020	MG6NE18MKS-MSP	DCQFP172
JM54AC257B2A-RH	DHLCC020	JM54ACT151S2A-R	DHLCC020	MG6NE18MKV/883	DCQFP172
JM54AC257S2A-RH	DHLCC020	JM54ACT240B2A	DHLCC020	MG6NE18MKV-MSP	DCQFP172
JM54AC273B2A	DHLCC020	JM54ACT240B2A-R	DHLCC020	MG6NE18MKV-SCD	DCQFP172
JM54AC273B2A-RH	DHLCC020	JM54ACT240S2A-R	DHLCC020	MG6PE15MIZ-MCP	DFPQF128
JM54AC273S2A-RH	DHLCC020	JM54ACT244B2A	DHLCC020	MG6SE23MKU/883	DCQFP256
JM54AC299B2A	DHLCC020	JM54ACT244B2A-R	DHLCC020	MG6SUAMKJ/883	DCPGA223
JM54AC299B2A-RH	DHLCC020	JM54ACT244S2A	DHLCC020	MG6SUAMKJ-SCD	DCPGA223
JM54AC299S2A	DHLCC020	JM54ACT244S2A-R	DHLCC020	MM54HC123AE/883	DHLCC020
JM54AC299S2A-RH	DHLCC020	JM54ACT245B2A	DHLCC020	MM9097DBU-F-MSP	DCQFP132
JM54AC32B2A	DHLCC020	JM54ACT245B2A-R	DHLCC020	MM9099AAU-F-MSP	DCQFP132
JM54AC32B2A-RH	DHLCC020	JM54ACT245S2A	DHLCC020	MM9100MMU-F-MSP	DCQFP132
JM54AC32S2A-RH	DHLCC020	JM54ACT245S2A-R	DHLCC020	MM9101ABU-F-MSP	DCQFP132
JM54AC373B2A	DHLCC020	JM54ACT377B2A	DHLCC020	MM9102TCI-F-MSP	DCQFP132
JM54AC373B2A-RH	DHLCC020	JM54ACT377S2A	DHLCC020	MM9103RCU-F-MSP	DCQFP132
JM54AC373S2A-RH	DHLCC020	JM54ACT574B2A	DHLCC020	MM9104DIU-F-MSP	DCQFP132
JM54AC374B2A	DHLCC020	JM54ACT574B2A-R	DHLCC020	MM9105APU-F-MSP	DCQFP132
JM54AC374B2A-RH	DHLCC020	JM54ACT574S2A-R	DHLCC020	MM9106ACU-F-MSP	DCQFP132
JM54AC374S2A-RH	DHLCC020	JM54ACT74B2A	DHLCC020	MM9107DAU-F-MSP	DCQFP132
JM54AC377B2A	DHLCC020	JM54ACT74B2A-RH	DHLCC020	MM9201DCU-F-MSP	DCQFP132
JM54AC377B2A-RH	DHLCC020	JM54ACT74S2A-RH	DHLCC020	MM9202DRU-F-MSP	DCQFP132
JM54AC377S2A	DHLCC020	LF11331D/883	DHDIP016	MM9325-U2	DHPGA084

National Part Number	Package Type	National Part Number	Package Type	National Part Number	Package Type
MM9706-E23-MPR	DFPQF256	SCX6244XAM/U6	DHPGA124	XD60E17MJG/-MSP	DFPQF172
MM9715-E23-MPR	DFPQF256	SCX6287SYN/U9	DHPGA180	XD60E17MJI/-MSP	DFPQF172
MM9731-U9-MPR	DHPGA180	SCX6287SYP/U6	DHPGA124	XD60E17MJJ/-MSP	DFPQF172
MM9733E18-SCD	DCQFP172	SCX6B120AIU/U6	DHPGA124	XD60E17MJL/-MSP	DFPQF172
MM9747E23-SCD	DFPQF256	SCX6B120EIL/U0	DHLCC084	XD60E17MJN/-MSP	DFPQF172
MM9751UA-MPR	DHPGA180	SCX6B120WUZ/U6	DHPGA124	XD60E17MJP/-MSP	DFPQF172
MM9752D64-MPR	DHDIP064	SCX6B21AOB/U1	DHLCC084	XD60E17MJQ/-MSP	DFPQF172
NS41024L55E/883	DHLCC032	SCX6B21EJP/U0	DHLCC084	XD60E17MJT/-MSP	DFPQF172
RM54AC2525LMQB	DHLCC020	SCX6B48AIS/U6	DHPGA124	XD60E17MJW/-MSP	DFPQF172
RM54ACT161LMQB	DHLCC020	SCX6B48EGX/U6	DHPGA124	XD60E17MJX/-MSP	DFPQF172
RM54ACT245S2A	DHLCC020	SCX6B48WMJ/E4	DHLCC068	XD60E17MJZ/-MSP	DFPQF172
RM54ACTQ14LMQB	DHLCC020	SCX6B48WUS/D3	DHDIP040	XD61E17MJS/-MSP	DFPQF172
RM54ACTQ273LMQB	DHLCC020	SCX6B48VWJ/D3	DHDIP040	XD61E9MII/-MSP	DCQFP172
SCANPSC100FLMQB	DHLCC028	SCX6B64ABR/U6	DHPGA124	XD61E9MIP/-MSP	DCQFP172
SCANPSC110FE-QV	DHLCC028	SCX6B64ABS/U6	DHPGA124	XD6XE23MIY-MPR	DFPQF256
SCANPSC110FLMQB	DHLCC028	SCX6B64AHI/U6	DHPGA124	XD6XETMIX-MPR	DFPQF256
SCL1174-E21-MSP	DHLCC020	X2C0U6AHH/-MSP	DHPGA124	XDD2D5AEU/-MSP	DHDIP048
SCL3144-U20	DHLCC084	X2C3STZ-D3-MSP	DHDIP040	XDD2E1AEU/-MSP	DCQJB044
SCL3145-U19	DHLCC084	X2C3STZ-E1-MSP	DCQJB044	XDD4E14EBE/-MSP	DCQFP132
SCX6206WLH/D4	DHDIP014	X2C3TQD-E4-MSP	DHLCC068	XDD4U0AIF/-MSP	DHPGA068
SCX6212PWK/E4	DHLCC068	X2C3UEU-EL-MSP	DCQJB068	XDD8E9EBF/-MSP	DCQFP172
SCX6212QPY/E4	DHLCC068	X2C4E18UXD/-MSP	DCQFP172		
SCX6212RDC/E4	DHLCC068	X2C4PRU-E9-MSP	DCQFP172		
SCX6218TUA/U6	DHPGA124	X2C4PSE-E9-MSP	DCQFP172		
SCX6225MXD/E4	DHLCC068	X2C4QLJ-E9-MSP	DCQFP172		
SCX6225MXF/E4	DHLCC068	X2C4QZQ-E9-MSP	DCQFP172		
SCX6225PPU/U0	DHLCC084	X2C4RFL-E9-MSP	DCQFP172		
SCX6225PRB/E5	DHLCC084	X2C4RLB-E9-MSP	DCQFP172		
SCX6225PZZ/U2	DHPGA084	X2C4RLC-E9-MSP	DCQFP172		
SCX6225QDP/U6	DHPGA124	X2C4SJE-E9-MSP	DCQFP172		
SCX6225QMH/E4	DHLCC068	X2C4S JL-E9-MSP	DCQFP172		
SCX6225RHN/U0	DHLCC084	X2C4SJM-E9-MSP	DCQFP172		
SCX6225WLA/U2	DHPGA084	X2C4TEA-E9-MSP	DCQFP172		
SCX6232WJX/U6	DHPGA124	X2C4TEJ-E9-MSP	DCQFP172		
SCX6244ACJ/U6	DHPGA124	X2C5SUU-U2-MSP	DHPGA084		
SCX6244ACL/U6	DHPGA124	X2C8D3AEA/-MSP	DHDIP040		
SCX6244AIV/U6	DHPGA124	XD12E14EIW/-MSP	DCQFP132		
SCX6244ALQ/U6	DHPGA124	XD15E14AKS/883	DCQFP132		
SCX6244REH/E4	DHLCC068	XD15E14AKS/-MSP	DCQFP132		
SCX6244RGA/U0	DHLCC084	XD60E15MJD/-MSP	DFPQF128		
SCX6244SDX/U6	DHPGA124	XD60E15MJF/-MSP	DFPQF128		
SCX6244SMN/D5	DHDIP048	XD60E15MJK/-MSP	DFPQF128		
SCX6244STZ/D3	DHDIP040	XD60E15MJR/-MSP	DFPQF128		
SCX6244SYC/D3	DHDIP040	XD60E15XXX/-MSP	DFPQF128		
SCX6244TBX/U6	DHPGA124	XD60E16MJC/-MSP	DFPQF152		
SCX6244WGC/U1	DHLCC084	XD60E16MJE/-MSP	DFPQF152		
SCX6244WLP/E5	DHLCC084	XD60E16MJH/-MSP	DFPQF152		
SCX6244WNC/U6	DHPGA124	XD60E16MJY/-MSP	DFPQF152		
SCX6244WUN/U6	DHPGA124	XD60E17MJA/-MSP	DFPQF172		
SCX6244XAC/U6	DHPGA124	XD60E17MJB/-MSP	DFPQF172		



ENHANCED SOLUTIONS DESIGN/PROCESS CHANGE NOTIFICATION

(formerly Military & Aerospace Division)

PCN Nr: MA2000-08

Issued: 08/01/2000

GIDEP Nr: AH6-C-00-10	GIDEP Category: PCN	TRB Nr: 164
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Product ID (Description):

ALL B level FACT 2.0u products - /883, SMD and JAN B.
See Tables I for affected part numbers.

Proposed Date of Change:

July 2000 and Onward

Description of Change:

The FACT 2.0u B level devices manufactured after the above date will no longer have 100% production burn-in. A burn-in process monitor has been established to insure continued quality and reliability. Operational life burn-in will continue to be performed on FACT 2.0u JAN B and /883 product per standard Quality Conformance Inspection rules.

This reduction does not affect any S level, S level rad tolerant, B level rad tolerant or Custom -MLS products.

Under the guidelines of MIL-PRF-38535 QML process reduction procedures, National Semiconductor's Technology Review Board has reviewed and approved this process modification.

Effect of Change:

This change should have no impact on quality or reliability to customers. FACT 2.0u is a mature product line which has been manufactured in the same FAB facility for 14 years. The FAB process is well understood and controlled. The burn-in process monitor that has been instituted will insure continued process control.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com

Other contacts	Bill Petcher, Logic Product Eng. Tel: (207) 541-4597 email: bill.petcher@nsc.com	
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Other Ref: None

Associated Notes / Table(s):

TABLE I:

National Part Number	Standard Microcircuit Drawing	National Part Number	Standard Microcircuit Drawing
54AC00DMQB	5962-8754901CA	54AC163LMQB	5962-89582012A
54AC00FMQB	5962-8754901DA	54AC169DMQB	5962-9160301MEA
54AC00LMQB	5962-87549012A	54AC169FMQB	5962-9160301MFA
54AC02DMQB	5962-8761201CA	54AC169LMQB	5962-9160301M2A
54AC02FMQB	5962-8761201DA	54AC174DMQB	5962-8762601EA
54AC02LMQB	5962-87612012A	54AC174FMQB	5962-8762601FA
54AC04DMQB	5962-8760901CA	54AC174LMQB	5962-87626012A
54AC04FMQB	5962-8760901DA	54AC175DMQB	5962-8955201EA
54AC04LMQB	5962-87609012A	54AC175FMQB	5962-8955201FA
54AC05DMQB	5962-9059001MCA	54AC175LMQB	5962-89552012A
54AC05FMQB	5962-9059001MDA	54AC191DMQB	5962-8974901EA
54AC05LMQB	5962-9059001M2A	54AC191FMQB	5962-8974901FA
54AC08DMQB	5962-8761501CA	54AC191LMQB	5962-89749012A
54AC08FMQB	5962-8761501DA	54AC20DMQB	5962-8761301CA
54AC08LMQB	5962-87615012A	54AC20FMQB	5962-8761301DA
54AC109DMQB	5962-8955101EA	54AC20LMQB	5962-87613012A
54AC109FMQB	5962-8955101FA	54AC240DMQB	5962-8755001RA
54AC109LMQB	5962-89551012A	54AC240FMQB	5962-8755001SA
54AC10DMQB	5962-8761001CA	54AC240LMQB	5962-87550012A
54AC10FMQB	5962-8761001DA	54AC241DMQB	5962-8755101RA
54AC10LMQB	5962-87610012A	54AC241FMQB	5962-8755101SA
54AC11DMQB	5962-8761101CA	54AC241LMQB	5962-87551012A
54AC11FMQB	5962-8761101DA	54AC244DMQB	5962-8755201RA
54AC11LMQB	5962-87611012A	54AC244FMQB	5962-8755201SA
54AC138DMQB	5962-8762201EA	54AC244LMQB	5962-87552012A
54AC138FMQB	5962-8762201FA	54AC245DMQB	5962-8775801RA
54AC138LMQB	5962-87622012A	54AC245FMQB	5962-8775801SA
54AC139DMQB	5962-8762301EA	54AC245LMQB	5962-87758012A
54AC139FMQB	5962-8762301FA	54AC251DMQB	5962-8769201EA
54AC139LMQB	5962-87623012A	54AC251FMQB	5962-8769201FA
54AC14DMQB	5962-8762401CA	54AC251LMQB	5962-87692012A
54AC14FMQB	5962-8762401DA	54AC2525DMQB	5962-9217401MCA
54AC14LMQB	5962-87624012A	54AC2525FMQB	5962-9217401MDA
54AC151DMQB	5962-8769101EA	54AC2525LMQB	5962-9217401M2A
54AC151FMQB	5962-8769101FA	54AC253DMQB	5962-8769301EA
54AC151LMQB	5962-87691012A	54AC253FMQB	5962-8769301FA
54AC153DMQB	5962-8762501EA	54AC253LMQB	5962-87693012A
54AC153FMQB	5962-8762501FA	54AC257DMQB	5962-8870301EA
54AC153LMQB	5962-87625012A	54AC257FMQB	5962-8870301FA
54AC157DMQB	5962-8953901EA	54AC257LMQB	5962-88703012A
54AC157FMQB	5962-8953901FA	54AC258DMQB	5962-9160401MEA
54AC157LMQB	5962-89539012A	54AC273DMQB	5962-8775601RA
54AC158DMQB	5962-8972901EA	54AC273FMQB	5962-8775601SA
54AC158LMQB	5962-89729012A	54AC273LMQB	5962-87756012A
54AC161DMQB	5962-8956101EA	54AC280DMQB	5962-9220101MCA
54AC161FMQB	5962-8956101FA	54AC280FMQB	5962-9220101MDA
54AC161LMQB	5962-89561012A	54AC280LMQB	5962-9220101M2A
54AC163DMQB	5962-8958201EA	54AC299DMQB	5962-8875401RA
54AC163FMQB	5962-8958201FA		

National Part Number	Standard Microcircuit Drawing	National Part Number	Standard Microcircuit Drawing
54AC299FMQB	5962-8875401SA	54ACT00DMQB	5962-8769901MCA
54AC299LMQB	5962-88754012A	54ACT00FMQB	5962-8769901MDA
54AC32DMQB	5962-8761401CA	54ACT00LMQB	5962-8769901M2A
54AC32FMQB	5962-8761401DA	54ACT109DMQB	5962-8853401EA
54AC32LMQB	5962-87614012A	54ACT109FMQB	5962-8853401FA
54AC373DMQB	5962-8755501RA	54ACT109LMQB	5962-88534012A
54AC373FMQB	5962-8755501SA	54ACT112DMQB	5962-8995001MEA
54AC373LMQB	5962-87555012A	54ACT112FMQB	5962-8995001MFA
54AC374DMQB	5962-8769401RA	54ACT112LMQB	5962-8995001M2A
54AC374FMQB	5962-8769401SA	54ACT138DMQB	5962-8755401MEA
54AC374LMQB	5962-87694012A	54ACT138FMQB	5962-8755401MFA
54AC377DMQB	5962-8870201RA	54ACT138LMQB	5962-8755401M2A
54AC377FMQB	5962-8870201SA	54ACT139DMQB	5962-8755301EA
54AC377LMQB	5962-88702012A	54ACT139FMQB	5962-8755301FA
54AC520DMQB	5962-9091601MRA	54ACT139LMQB	5962-87553012A
54AC520FMQB	5962-9091601MSA	54ACT151DMQB	5962-8875601MEA
54AC520LMQB	5962-9091601M2A	54ACT151FMQB	5962-8875601MFA
54AC521DMQB	5962-9098501MRA	54ACT151LMQB	5962-8875601M2A
54AC521FMQB	5962-9098501MSA	54ACT153DMQB	5962-8769801EA
54AC521LMQB	5962-9098501M2A	54ACT153FMQB	5962-8769801FA
54AC540DMQB	5962-8769501RA	54ACT153LMQB	5962-87698012A
54AC540FMQB	5962-8769501SA	54ACT157DMQB	5962-8968801EA
54AC540LMQB	5962-87695012A	54ACT157FMQB	5962-8968801FA
54AC541DMQB	5962-8870601RA	54ACT157LMQB	5962-89688012A
54AC541FMQB	5962-8870601SA	54ACT158DMQB	5962-8875501EA
54AC541LMQB	5962-88706012A	54ACT158FMQB	5962-8875501FA
54AC574DMQB		54ACT158LMQB	5962-88755012A
54AC574FMQB		54ACT161DMQB	5962-9172201MEA
54AC574LMQB		54ACT161FMQB	5962-9172201MFA
54AC646FMQB	5962-8968201KA	54ACT161LMQB	5962-9172201M2A
54AC646LMQB	5962-89682013A	54ACT163DMQB	5962-9172301MEA
54AC646SDMQB	5962-8968201LA	54ACT163FMQB	5962-9172301MFA
54AC74DMQB	5962-8852001CA	54ACT163LMQB	5962-9172301M2A
54AC74FMQB	5962-8852001DA	54ACT169DMQB	
54AC74LMQB	5962-88520012A	54ACT169FMQB	
54AC821FMQB	5962-9160601MKA	54ACT169LMQB	
54AC821LMQB	5962-9160601M3A	54ACT174DMQB	5962-8775701EA
54AC821SDMQB	5962-9160601MLA	54ACT174FMQB	5962-8775701FA
54AC86DMQB	5962-8955001CA	54ACT174LMQB	5962-87757012A
54AC86FMQB	5962-8955001DA	54ACT175DMQB	5962-8969301EA
54AC86LMQB	5962-89550012A	54ACT175FMQB	5962-8969301FA
		54ACT175LMQB	5962-89693012A
		54ACT240DMQB	5962-8775901MRA
		54ACT240FMQB	5962-8775901MSA
		54ACT240LMQB	5962-8775901M2A
		54ACT241DMQB	5962-8984701RA
		54ACT241FMQB	5962-8984701SA
		54ACT241LMQB	5962-89847012A
		54ACT244DMQB	5962-8776001MRA

National Part Number	Standard Microcircuit Drawing	National Part Number	Standard Microcircuit Drawing
54ACT244FMQB	5962-8776001MSA	54ACT573LMQB	5962-87664012A
54ACT244LMQB	5962-8776001M2A	54ACT574DMQB	5962-8960101MRA
54ACT245DMQB	5962-8766301MRA	54ACT574FMQB	5962-8960101MSA
54ACT245FMQB	5962-8766301MSA	54ACT574LMQB	5962-8960101M2A
54ACT245LMQB	5962-8766301M2A	54ACT74DMQB	5962-8752501MCA
54ACT251DMQB	5962-8959901EA	54ACT74FMQB	5962-8752501MDA
54ACT251FMQB	5962-8959901FA	54ACT74LMQB	5962-8752501M2A
54ACT251LMQB	5962-89599012A	54ACT818FMQB	5962-9160901MKA
54ACT2525DMQB		54ACT818LMQB	5962-9160901M3A
54ACT2525FMQB		54ACT818SDMQB	5962-9160901MLA
54ACT2525LMQB		54ACT821FMQB	5962-8870501KA
54ACT253DMQB	5962-8776101EA	54ACT821LMQB	5962-88705013A
54ACT253FMQB	5962-8776101FA	54ACT821SDMQB	5962-8870501LA
54ACT253LMQB	5962-87761012A	54ACT823FMQB	5962-9161001MKA
54ACT257DMQB	5962-8968901EA	54ACT823LMQB	5962-9161001M3A
54ACT257FMQB	5962-8968901FA	54ACT823SDMQB	5962-9161001MLA
54ACT257LMQB	5962-89689012A	54ACT825FMQB	5962-9161101MKA
54ACT258DMQB	5962-8870401EA	54ACT825LMQB	5962-9161101M3A
54ACT258FMQB	5962-8870401FA	54ACT825SDMQB	5962-9161101MLA
54ACT258LMQB	5962-88704012A		
54ACT299DMQB	5962-8877101RA		
54ACT299FMQB	5962-8877101SA		
54ACT299LMQB	5962-88771012A		
54ACT323DMQB	5962-9160701MRA		
54ACT323FMQB	5962-9160701MSA		
54ACT323LMQB	5962-9160701M2A		
54ACT3301W-QML	5962-9862101QFA		
54ACT377DMQB	5962-8769701MRA		
54ACT377FMQB	5962-8769701MSA		
54ACT377LMQB	5962-8769701M2A		
54ACT399DMQB	5962-9093401QEA		
54ACT399FMQB	5962-9093401QFA		
54ACT399LMQB	5962-9093401Q2A		
54ACT520DMQB	5962-8979301RA		
54ACT520FMQB	5962-8979301SA		
54ACT520LMQB	5962-89793012A		
54ACT521DMQB	5962-8979302RA		
54ACT521FMQB	5962-8979302SA		
54ACT521LMQB	5962-89793022A		
54ACT534DMQB	5962-8965801RA		
54ACT534FMQB	5962-8965801SA		
54ACT534LMQB	5962-89658012A		
54ACT563DMQB	5962-8955601RA		
54ACT563FMQB	5962-8955601SA		
54ACT563LMQB	5962-89556012A		
54ACT564DMQB	5962-8955701RA		
54ACT564FMQB	5962-8955701SA		
54ACT564LMQB	5962-89557012A		
54ACT573DMQB	5962-8766401RA		
54ACT573FMQB	5962-8766401SA		

National Part Number	Slasheet Number	National Part Number	Slasheet Number
JM54AC00BCA	JM38510/75001BCA	JM54AC245BRA	JM38510/75503BRA
JM54AC00BDA	JM38510/75001BDA	JM54AC245BSA	JM38510/75503BSA
JM54AC00B2A	JM38510/75001B2A	JM54AC257BFA	JM38510/76207BFA
JM54AC02BCA	JM38510/75101BCA	JM54AC273B2A	JM38510/75601B2A
JM54AC02BDA	JM38510/75101BDA	JM54AC273BRA	JM38510/75601BRA
JM54AC04B2A	JM38510/75701B2A	JM54AC273BSA	JM38510/75601BSA
JM54AC04BCA	JM38510/75701BCA	JM54AC299B2A	JM38510/76506B2A
JM54AC04BDA	JM38510/75701BDA	JM54AC299BRA	JM38510/76506BRA
JM54AC08B2A	JM38510/75203B2A	JM54AC299BSA	JM38510/76506BSA
JM54AC08BCA	JM38510/75203BCA	JM54AC32B2A	JM38510/75201B2A
JM54AC08BDA	JM38510/75203BDA	JM54AC32BCA	JM38510/75201BCA
JM54AC109BFA	JM38510/75304BFA	JM54AC32BDA	JM38510/75201BDA
JM54AC10BCA	JM38510/75002BCA	JM54AC373B2A	JM38510/75403B2A
JM54AC10BDA	JM38510/75002BDA	JM54AC373BRA	JM38510/75403BRA
JM54AC11B2A	JM38510/75204B2A	JM54AC373BSA	JM38510/75403BSA
JM54AC11BCA	JM38510/75204BCA	JM54AC374B2A	JM38510/75602B2A
JM54AC11BDA	JM38510/75204BDA	JM54AC374BRA	JM38510/75602BRA
JM54AC125B2A	5962-9325301B2A	JM54AC374BSA	JM38510/75602BSA
JM54AC125BCA	5962-9325301BCA	JM54AC377B2A	JM38510/75603B2A
JM54AC125BDA	5962-9325301BDA	JM54AC377BSA	JM38510/75603BSA
JM54AC138B2A	JM38510/75802B2A	JM54AC520BSA	5962-9091601BSA
JM54AC138BEA	JM38510/75802BEA	JM54AC521B2A	5962-9098501B2A
JM54AC138BFA	JM38510/75802BFA	JM54AC521BSA	5962-9098501BSA
JM54AC14B2A	JM38510/75702B2A	JM54AC541B2A	JM38510/75711B2A
JM54AC14BCA	JM38510/75702BCA	JM54AC541BRA	JM38510/75711BRA
JM54AC14BDA	JM38510/75702BDA	JM54AC541BSA	JM38510/75711BSA
JM54AC151B2A	JM38510/76201B2A	JM54AC574B2A	JM38510/75604B2A
JM54AC151BEA	JM38510/76201BEA	JM54AC574BSA	JM38510/75604BSA
JM54AC153B2A	JM38510/76202B2A	JM54AC74B2A	JM38510/75302B2A
JM54AC153BFA	JM38510/76202BFA	JM54AC74BCA	JM38510/75302BCA
JM54AC157B2A	JM38510/76203B2A	JM54AC74BDA	JM38510/75302BDA
JM54AC157BEA	JM38510/76203BEA	JM54AC86B2A	JM38510/75202B2A
JM54AC157BFA	JM38510/76203BFA	JM54AC86BCA	JM38510/75202BCA
JM54AC161B2A	JM38510/76302B2A	JM54AC86BDA	JM38510/75202BDA
JM54AC161BEA	JM38510/76302BEA		
JM54AC161BFA	JM38510/76302BFA	JM54ACT00B2A	5962-8769901B2A
JM54AC163B2A	JM38510/76304B2A	JM54ACT00BCA	5962-8769901BCA
JM54AC163BEA	JM38510/76304BEA	JM54ACT00BDA	5962-8769901BDA
JM54AC163BFA	JM38510/76304BFA	JM54ACT112B2A	5962-8995001B2A
JM54AC174BFA	JM38510/75307BFA	JM54ACT112BEA	5962-8995001BEA
JM54AC191BEA	JM38510/76305BEA	JM54ACT112BFA	5962-8995001BFA
JM54AC191BFA	JM38510/76305BFA	JM54ACT138BEA	5962-8755401BEA
JM54AC20BDA	JM38510/75003BDA	JM54ACT240B2A	5962-8775901B2A
JM54AC240B2A	JM38510/75703B2A	JM54ACT240BRA	5962-8775901BRA
JM54AC240BSA	JM38510/75703BSA	JM54ACT244B2A	5962-8776001B2A
JM54AC241B2A	JM38510/75704B2A	JM54ACT244BRA	5962-8776001BRA
JM54AC241BSA	JM38510/75704BSA	JM54ACT244BSA	5962-8776001BSA
JM54AC244B2A	JM38510/75705B2A	JM54ACT245B2A	5962-8766301B2A
JM54AC244BRA	JM38510/75705BRA	JM54ACT245BRA	5962-8766301BRA
JM54AC244BSA	JM38510/75705BSA	JM54ACT245BSA	5962-8766301BSA
JM54AC245B2A	JM38510/75503B2A	JM54ACT377B2A	5962-8769701B2A

National Part Number	Standard Microcircuit Drawing
JM54ACT377BRA	5962-8769701BRA
JM54ACT377BSA	5962-8769701BSA
JM54ACT574B2A	5962-8960101B2A
JM54ACT574BSA	5962-8960101BSA
JM54ACT74B2A	5962-8752501B2A
JM54ACT74BCA	5962-8752501BCA
JM54ACT74BDA	5962-8752501BDA



ENHANCED SOLUTIONS
DESIGN/PROCESS CHANGE NOTIFICATION
(formerly Military & Aerospace Division)

PCN Nr: MA2000-09

Issued: 08/01/2000

GIDEP Nr: AH6-C-00-11	GIDEP Category: PCN	TRB Nr: 171
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Product ID (Description):

Level B DS26LS31 products - /883 and SMD. (Reference Table I)

Proposed Date of Change:

July 2000 and Onward

Description of Change:

The DS26LS31 Level B devices manufactured after the above date will no longer have 100% production burn-in. A burn-in process monitor has been established to insure continued quality and reliability. Operational life burn-in will continue to be performed on DS26LS31 SMD and /883 product per standard Quality Conformance Inspection rules.

This reduction does not affect any Level S, Level S Rad Tolerant, Level B Rad Tolerant or Custom -MLS products.

Under the guidelines of MIL-PRF-38535 QML process reduction procedures, National Semiconductor's Technology Review Board has reviewed and approved this process modification.

Effect of Change:

This change should have no impact on quality or reliability to customers. The burn-in process monitor that has been instituted will insure continued process control.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Larry McGee, Analog Eng. Mgr. Tel: (408) 721-7231 email: larry.mcgee@nsc.com	

Other Ref: None

Associated Notes / Table(s):

TABLE I

NATIONAL PART NUMBER	STANDARD MICROCIRCUIT DRAWING
DS26LS31ME-SMD	5962-7802301Q2A
DS26LS31MJ-SMD	5962-7802301MEA
DS26LS31MJ/883	
DS26LS31MW-SMD	5962-7802301MFA
DS26LS31MW/883	



ENHANCED SOLUTIONS DESIGN/PROCESS CHANGE NOTIFICATION

(formerly Military & Aerospace Division)

PCN Nr: MA2000-10

Issued: 08/01/2000

GIDEP Nr: AH6-C-00-12	GIDEP Category: PCN	TRB Nr: 172
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Product ID (Description):

Level B LM124 products - /883, SMD and JAN B. (Reference Table I)

Proposed Date of Change:

August 2000 and onward

Description of Change:

The LM124 Level B devices manufactured after the above date will no longer have 100% production burn-in. A burn-in process monitor has been established to insure continued quality and reliability. Operational life burn-in will continue to be performed on LM124 JAN B, SMD and /883 product per standard Quality Conformance Inspection rules.

This reduction does not affect any Level S, Level S Rad Tolerant, Level B Rad Tolerant or Custom -MLS products.

Under the guidelines of MIL-PRF-38535 QML process reduction procedures, National Semiconductor's Technology Review Board has reviewed and approved this process modification.

Effect of Change:

This change should have no impact on quality or reliability to customers. The burn-in process monitor that has been instituted will insure continued process control.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Larry McGee, Analog Eng. Mgr. Tel: (408) 721-7231 email: larry.mcgee@nsc.com	

Other Ref: None

Associated Notes / Table(s):

TABLE I

NATIONAL PART NUMBER	SLASHSHEET OR STANDARD MICROCIRCUIT DRAWING
JL124ABCA	JM38510/11006BCA
JL124ABDA	JM38510/11006BDA
JL124ABZA	JM38510/11006BZA
JL124BCA	JM38510/11005BCA
JL124BDA	JM38510/11005BDA
JL124BZA	JM38510/11005BZA
LM124AJ/883	7704302CA
LM124AW/883	
LM124AWG/883	7704302XA
LM124J/883	7704301CA
LM124WG/883	7704301XA
LM124AE/883	77043022A



ENHANCED SOLUTIONS
DESIGN/PROCESS CHANGE NOTIFICATION
(formerly Military & Aerospace Division)

PCN Nr: MA2000-11

Issued: 08/02/2000

GIDEP Nr: AH6-C-00-13	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

High Speed, Low Power input-output Operational Amplifier

LM6142AMJ-QML 5962-9550301QPA

Proposed Date of Change:

Datecode 0027 and onward

Description of Change:

The Standard Microcircuit Drawing and National's Military Datasheet have been revised to reflect the following changes.

1. Supply voltage range changed from:

2.7V to 24V

to

2.8V to 24V

In line with the above change, all references to a supply voltage of 2.7V in the body of the "Electrical Characteristics" have been changed to 2.8V.

2. In the section "5.0V Electrical Characteristics",
"Slew Rate"--defined Cout = zero (previous omission),
and changed the limit for slew rate for
subgroup 5 from 10.5 V/us to 9.5 V/us.

"Vo"--Removed the condition of Rl = 3K, and added
the min limit of 4.77V to subgroup 5.

3. In the section "2.8V Electrical Characteristics",
"CMRR"--Changed conditions from 0V <= Vcm <= 1.8V
to
0V <= Vcm <= 1.9V.

"CMRR"--Changed conditions from 0V <= Vcm <= 2.7V
to
0V <= Vcm <= 2.8V.

"Vcm"--Changed limit from 2.7V to 2.8V

"Av"--Defined the Vout swing as $V_o = +/- 1.1V$ (previous omission).

"Vo"--Changed min limits for subgroup 4 from 2.66V to 2.76V and subgroup 5 from 2.25V to 2.35V.

Effect of Change:

Customers are encouraged to review their applications to determine the possible impact of the above information.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Larry McGee, Analog Eng. Mgr. Tel: (408) 721-7231 email: larry.mcgee@nsc.com	

Other Ref: None

Associated Notes / Table(s):

N/A



ENHANCED SOLUTIONS DESIGN/PROCESS CHANGE NOTIFICATION

(formerly Military & Aerospace Division)

PCN Nr: MA2000-12

Issued: 08/03/2000

GIDEP Nr: AH6-C-00-14	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

CMOS Timer LMC555J/883 5962-8950305PA

Proposed Date of Change:

3 JULY 2000 and onward

Description of Change:

The limits for the following two parameters have been changed at +25C, +125C, and -55C.

<u>PARAMETER</u>	<u>CONDITIONS</u>	<u>OLD LIMIT</u>	<u>NEW LIMIT</u>
Voh	Vdd = 12.0V, Ioh = -10mA	10.50V min	10.25V min
Vol	Vcc = 12.0V, Iol = 50mA	2.00V max	2.25V max

The Standard Microcircuit Drawing and National's Military Datasheet have been revised to reflect these changes.

Effect of Change:

Customers are encouraged to review their applications to determine the possible impact of the above information.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Larry McGee, Analog Eng. Mgr. Tel: 408-721-7231 email: larry.mcgee@nsc.com	

Other Ref: None

Associated Notes / Table(s):

N/A



ENHANCED SOLUTIONS
DESIGN/PROCESS CHANGE NOTIFICATION
(formerly Military & Aerospace Division)

PCN Nr: MA2000-13

Issued: 08/11/2000

GIDEP Nr: AH6-C-00-15	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

LM135 Precision Sensors & LM136 Voltage References (See Tables I & II)

Proposed Date of Change:

Datecode 0027 and onward

Description of Change:

Wafer fabrication process transfer from Greenock, Scotland wafer fab2 (4 inch) to Greenock, Scotland wafer fab3 (6 inch).

The wafer fab lot# prefix is listed below as an aid for our die sales customers for ease of site location identification.

4" wafer fab lot# prefix was **H** ; 6" wafer fab lot# prefix is **J**

Effect of Change:

This wafer fab transfer was fully qualified by Enhanced Solutions formerly the Military Aerospace Division.

These changes will not adversely affect the device performance, quality or reliability.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Larry McGee, Analog Eng. Mgr. Tel: (408) 721-7231 email: larry.mcgee@nsc.com Jacqueline Collard Die products Business Unit Marketing (207) 541-8760 email: jacqueline.l.collard@nsc.com	

Other Ref: None

Associated Notes / Table(s):

TABLE I - Packaged Devices

<u>National Part Number</u>	<u>Standard Microcircuit Drawing Number</u>
LM135H-MIL	
LM135H-MLS	
LM136AH-2.5-MLS	
LM136AH-2.5/883	
LM136AH-5.0-SMD	8418002XA
LM136AH-5.0/883	
LM136H-2.5/883	
LM136H-5.0/883	

TABLE II - Die Sales

LM135 MDA
LM136-2.5 MDA
LM136-2.5 MDS
LM136-5.0 MW8



ENHANCED SOLUTIONS DESIGN/PROCESS CHANGE NOTIFICATION

(formerly Military & Aerospace Division)

PCN Nr: MA2000-14

Issued: 08/16/2000

GIDEP Nr: AH6-C-00-16	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

LFAST Products - Level V and Radhard Levels Q & V (see Tables I)

(MA99030 dated 12/3/99 announced the release of the Level Q products.)

Proposed Date of Change:

Commencing Datecode 0009

Description of Change:

National Semiconductor's 6" wafer fabrication line in Greenock, Scotland has qualified the Novellus Field Oxide Deposition and a new back-end process from 1st interconnect metal deposition to 2nd metal deposition for all products running on LFAST 1-process flow. This includes the following process changes to the back end, 0.5%CuAl metal 1, Novellus ILD Deposition, and 0.5%CuAl metal 2.

<u>Process step</u>	<u>Standard Process</u>	<u>New Process</u>
Field Oxide	Low Temperature Oxidation	Novellus PECVD
Metal1 composition	1%Si 2%Cu Al	0.5%Cu Al
Inter Layer Dielectric	Low Temperature Oxidation	Novellus PECVD
Metal2 composition	1%Si 2%Cu Al	0.5%Cu Al

Effect of Change:

There will be no major change to form, fit or function of the final product shipped to customers. Greater device lifetime reliability is anticipated from the new metal deposition steps. These steps reduce particulates and therefore greatly reduce the chance of defect related failures in the field. Also increased metal step coverage signifies better electromigration performance.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com

Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Bill Petcher , Logic Product Eng. Tel: (207) 541-4597 email: bill.petcher@nsc.com	

Other Ref: None

Associated Notes / Table(s):

TABLE I

<u>NATIONAL PART NUMBER</u>	<u>STANDARD MICROCIRCUIT NUMBER</u>
DS16F95J-QMLV	5962-8961501VPA
DS16F95W-QMLV	5962-8961501VHA
DS16F95WG-QMLV	5962-8961501VXA
DS26F31MW-QMLV	5962-7802302VFA
DS26F31MJ-QMLV	5962-7802302VEA
DS26F32MJ-QMLV	5962-7802005VEA
DS26F32MW-QMLV	5962-7802005VFA
DS26F32MJR-QML	5962R7802005QEA
DS26F32MER-QML	5962R7802005Q2A
DS26F32MWR-QML	5962R7802005QFA
DS26F32MJRQMLV	5962R7802005VEA
DS26F32MWRQMLV	5962R7802005VFA



ENHANCED SOLUTIONS DESIGN/PROCESS CHANGE NOTIFICATION

(formerly Military & Aerospace Division)

PCN Nr: MA2000-15

Issued: 08/30/2000

GIDEP Nr: AH6-D-00-07	GIDEP Category: DMSMS	TRB Nr:
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Product ID (Description):

TABLE I - Packaged Product Managed by Enhanced Solutions
TABLE II - Die Products Managed by Enhanced Solutions

Proposed Date of Change:

Lifetime buy purchase orders will be accepted until **4 September 2001**.

Description of Change:

PRODUCT OBSOLESCENCE

National Semiconductor wishes to inform you that the devices listed in Tables I & II are being discontinued. The decision to obsolete these products was primarily due to low volume or minimal demand from our customer base.

Effect of Change:

While all best efforts will be made to ensure that product can be supplied for any order received during the Life Time Buy period, this cannot be guaranteed. We would therefore advise that you do not wait until the last moment before placing your final orders.

Suggested alternate devices and manufacturers are viable at the time of publication of this document.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com

Other contacts	Mike Scott Enhanced Solutions Marketing (408) 721-5491 email: mike.scott@nsc.com Jacqueline Collard Die products Business Unit Marketing (207) 541-8760 email: jacqueline.l.collard@nsc.com	
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Other Ref: None

Associated Notes / Table(s):

Table I - Obsolete National Packaged Part Number	Recommended Replacement	Recommended SMD Number	Recommended Alternate Source
100328FC.	100328FMQB	NONE	NSC
54AC00LM.	54AC00LMQB	5962-87549012A	NSC
54AC08DM.	54AC08DMQB	5962-8761501CA	NSC
54AC157DM.	54AC157DMQB	5962-8953901EA	NSC
54AC169FM-MLS	54AC169WRQMLV	5962R9160301VFA	NSC
54AC169LM-MLS	54AC169ERQMLV	5962R9160301V2A	NSC
54AC175DM-MLS	54AC175JRQMLV	5962R8955201VEA	NSC
54AC175FM-MLS	54AC175WRQMLV	5962R8955201VFA	NSC
54AC251FM-MLS	54AC251WRQMLV	5962R8769201VFA	NSC
54AC2708LMQB.	NONE	NONE	NONE
54AC280FM-MLS	54AC280FMQB	5962-9220101MDA	NSC
54AC646FM-MLS	54AC646FMQB	5962-8968201KA	NSC
54AC74LM.	54AC74LMQB	5962-88520012A	NSC
54ACT00DM-MLS	JM54ACT00SCA-RH	5962R8769901SCA	NSC
54ACT00FM-MLS	JM54ACT00SDA-RH	5962R8769901SDA	NSC
54ACT109DM-MLS	54ACT109JRQMLV	5962R8853401VEA	NSC
54ACT109FM-MLS	54ACT109WRQMLV	5962R8853401VFA	NSC
54ACT112DM-MLS	JM54ACT112SEA	5962-8995001SEA	NSC
54ACT112FM-MLS	JM54ACT112SFA	5962-8995001SFA	NSC
54ACT138FM-MLS	JM54ACT138SFA-R	5962R8755401SFA	NSC
54ACT157DM-MLS	54ACT157JRQMLV	5962R8968801VEA	NSC
54ACT157FM-MLS	54ACT157WRQMLV	5962R8968801VFA	NSC
54ACT161DM-MLS	54ACT161JRQMLV	5962R9172201VEA	NSC

Table I continued - Obsolete National Packaged Part Number	Recommended Replacement	Recommended SMD Number	Recommended Alternate Source
54ACT174FM-MLS	54ACT174FMQB	5962-8775701FA	NSC
54ACT175DM-MLS	54ACT175JRQMLV	5962R8969301VEA	NSC
54ACT175FM-MLS	54ACT175WRQMLV	5962R8969301VFA	NSC
54ACT240DM.	54ACT240DMQB	5962-8775901MRA	NSC
54ACT244DM.	54ACT244DMQB	5962-8776001MRA	NSC
54ACT245DM-MLS	JM54ACT245SRA-R	5962R8766301SRA	NSC
54ACT245FM-MLS	JM54ACT245SSA-R	5962R8766301SSA	NSC
54ACT257DM.	54ACT257DMQB	5962-8968901EA	NSC
54ACT374DM.	54ACT374DMQB	5962-8763101RA	NSC
54ACT573DM.	54ACT573DMQB	5962-8766401RA	NSC
54ACT74DM-MLS	JM54ACT74SCA-RH	5962R8752501SCA	NSC
54ACT74FM-MLS	JM54ACT74SDA-RH	5962R8752501SDA	NSC
54ACT825FM-MLS	54ACT825FMQB	5962-9161101MKA	NSC
54ACT899FM-MLS	54ACT899FMQB	NONE	NSC
54ACTQ04DM-MLS	54ACTQ04J-QMLV	5962-8973401VCA	NSC
54ACTQ04FM-MLS	54ACTQ04W-QMLV	5962-8973401VDA	NSC
54ACTQ08DM-MLS	54ACTQ08WRQMLV	5962R8954702VDA	NSC
54ACTQ245DM-MLS	54ACTQ245JRQMLV	5962R9218701VRA	NSC
54ACTQ273DM-MLS	54ACTQ273JRQMLV	5962R8973501VRA	NSC
54ACTQ273FM-MLS	54ACTQ273WRQMLV	5962R8973501VSA	NSC
54ACTQ32DM-MLS	54ACTQ32JRQMLV	5962R8973601VCA	NSC
54ACTQ32FM-MLS	54ACTQ32WRQMLV	5962R8973601VDA	NSC
54F04DM.	54F04DMQB	5962-9759301QCA	NSC
54F161ADM.	54F161ADMQB	NONE	NSC

Table I continued - Obsolete National Packaged Part Number	Obsolete SMD Number	Recommended Replacement	Recommended SMD Number	Recommended Alternate Source
54F191DM.		54F191DMQB	NONE	NSC
54F194DM.		54F194DMQB	NONE	NSC
54F20DM.		54F20DMQB	NONE	NSC
54F244DM.		54F244DMQB	NONE	NSC
54F299DM.		54F299DMQB	NONE	NSC
54F32DM.		54F32DMQB	NONE	NSC
54F374DM.		54F374DMQB	NONE	NSC
54F38DM.		54F38DMQB	NONE	NSC
54F521DM.		54F521DMQB	NONE	NSC
54F74DM.		54F74DMQB	NONE	NSC
54FCT138DM.		54FCT138DMQB	5962-8765401EA	NSC
54LS244DM.		DM54LS244J/883	NONE	NSC
54LS273DM.		DM54LS273J/883	NONE	NSC
54LS279DM.		DM54LS279J/883	NONE	NSC
9602DM.		DM9602J/883	NONE	NSC
CD4724BMJ-MIL			NONE	Rochester
CL114S01D		CLC114AE-QML	5962-9233901M2A	NSC
CL404S02D		CLC404AJ-QML	5962-9099401MPA	NSC
CL420S01H		CLC420AE-QML	5962-9175801M2A	NSC
CL420S03D		CLC420AJ-QML	5962-9175801MPA	NSC
CL425S02D		CLC425AJ-QML	5962-9325901MPA	NSC
CL426S01D		CLC426AWG-QML	NONE	NSC
CL501S03H		CLC501AD-MLS	NONE	NSC

Table I continued - Obsolete National Packaged Part Number	Obsolete SMD Number	Recommended Replacement	Recommended SMD Number	Recommended Alternate Source
CL505S12D		CLC505AD-MLS	NONE	NSC
CL532S02D		CLC532AJ-QML	5962-9203501MCA	NSC
DM54LS502W-MLS		DM54LS502J/883	5962-9080001MEA	NSC
DM71LS95J/883			NONE	NONE
DS26LS31MJ-MLS		DS26LS31MJ-QMLV	5962-7802301VEA	NSC
DS26LS32MW-MLS		DS26F32MWFQMLV	5962F7802005VFA	NSC
HPC004W20/883		HPC004W20-MCP	NONE	NSC
LM101AW-MLS		JL101ASHA	M38510/10103SHA	NSC
LM105H			LM105	SGS- Thomson
LM105H-MLS			LM105	SGS- Thomson
LM105H/883	5962- 8958801GA		LM105	SGS- Thomson
LM2595J-12-QML	5962- 9650201QEA	LM1575J-12-QML	5962-9167301QEA	NSC
LM2595J-3.3-QML	5962- 9687901QEA	LM1575J-ADJ-QML	5962-9167101MEA	NSC
LM2595J-ADJ-QML	5962- 9650401QEA	LM1575J-ADJ-QML	5962-9167101MEA	NSC
LM305AH			NONE	NONE
LM305H			NONE	NONE
LMX2305WG-MPR		LMX2305WG-QML	5962-9855003QXA	NSC
LMX2315WG-MPR		LMX2315WG-QML	5962-9855001QXA	NSC
LMX2325WG-MPR		LMX2325WG-QML	5962-9855002QXA	NSC
MM54HC123AJ-MLS		MM54HC123AJ/883	5962-8684702EA	NSC
MM9733-E18-MPR			NONE	NONE
MM9747-E23-MPR			NONE	NONE

Table II - Obsolete Die Product Name	Recommended Replacement (Note: 1)	Recommended SMD Number (Note: 1)	Alternate Source
28010-00 MWP	NONE	NONE	NONE
54AC04 MDA	54AC04 MD8	NONE	NSC
54AC540 MDA	54AC540DMQB	5962-8769501RA	NSC
54ACT138 MDA	54ACT138DMQB	5962-8755401MEA	NSC
54ACT139 MDA	54ACT139DMQB	5962-8755301EA	NSC
54ACT157 MDA	54ACT157DMQB	5962-8968801EA	NSC
54ACT241 MDA	54ACT241DMQB	5962-8984701RA	NSC
54ACT244 MDA	54ACT244DMQB	5962-8776001MRA	NSC
54ACTQ04 MDA	54ACTQ04DMQB	5962-8973401CA	NSC
54ACTQ10 MDA	54ACTQ10DMQB	5962-9218201MCA	NSC
54ACTQ16244 MDA	54ACTQ16244FMQB	5962-9561901QXA	NSC
54ACTQ16245 MDA	54ACTQ16245FMQB	5962-9562001QXA	NSC
54ACTQ16373 MDA	54ACTQ16373FMQB	5962-9561801QXA	NSC
54ACTQ16374 MDA	54ACTQ16374FMQB	5962-9452801QXA	NSC
54ACTQ244 MDA	54ACTQ244DMQB	5962-9218601MRA	NSC
54ACTQ245 MDA	54ACTQ245DMQB	5962-9218701MRA	NSC
54ACTQ374 MDA	54ACTQ374DMQB	5962-9218901MRA	NSC
54FCT244 MDA	54FCT244DMQB	5962-8763001RA	NSC
LM337H MWC	LM337HVH	NONE	NSC
LM4040D-2.5 MDC	LM4040D-2.5 MWC	NONE	NSC
LM725 MWC	LM725CH	NONE	NSC
LP2950C MWC	LP2950CN	NONE	NSC
SCAN18374T MDA	SCAN18374TFMQB	5962-9320701MXA	NSC
SCAN18541T MDA	SCAN18541TFMQB	5962-9311601MXA	NSC
TP3054 MDC	TP3054N	NONE	NSC
TP3054 MWC	TP3054N	NONE	NSC

Note 1:

In most cases, the recommended replacement listed is the packaged version of the obsoleted die. A die option may be re-instated subject to the level of business involved. Re-instatements will be considered on a case by case basis. Such requests may be made by sending an email, with details, to die@nsc.com



ENHANCED SOLUTIONS DESIGN/PROCESS CHANGE NOTIFICATION

(formerly Military & Aerospace Division)

PCN Nr: MA2000-16

Issued: 09/01/2000

GIDEP Nr: AH6-C-00-17	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

Single Metal Layer (SLM) and TiW barrier Logic Products
(FAST, HC, LSR, LPS, and Interface) (Reference Tables I , II , III & IV)

Wafer and die products (commercial grade 74xxx and military grade 54xxx) of these Single Metal Layer (SLM) products are also affected.

Proposed Date of Change:

Datecode 0023

Description of Change:

PASSIVATION CHANGE ON FAIRCHILD 4" Single Metal Layer (SLM) FAB PROCESS

National Semiconductor has qualified and approved the following change to

Fairchild's 4" Single Metal Layer (SLM) wafer fab process.
Die for the above products are made with this fab process.

The existing passivation process for Single Layer Metal (SLM) products with TiW barrier metal manufactured at Fairchild South Portland facility in the 4 inch wafer fab is a 10K A nitride film deposited with an ASM reactor. The new passivation process is a 2KA oxide 9KA nitride film stack deposited with a Novellus PECVD (Plasma Enhanced Chemical Vapor Deposition) reactor.

Effect of Change:

The process change is part of Fairchild's continuing process improvement activities. It will have no effect on product function, quality, or reliability, nor on the radiation tolerance of Single Metal Layer (SLM) RHA product.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832

		(English) Email: europa.support@nsc.com
Other contacts	Bill Petcher, Logic Product Eng. Tel: (207) 541-4597 email: bill.petcher@nsc.com	

Other Ref: None

Associated Notes / Table(s):

Single Layer Metal(with TiW barrier metal) List			
Product Families : FAST, LS, HCMOS & INTERFACE			
TABLE I:			
FAST Product			
National Part Number	Slashsheet Number	National Part Number	Standard Microcircuit Drawing Number
JD54F00BCA	JM38510/33001BCA	54F00DC	
JD54F00BDA	JM38510/33001BDA	54F00DMQB.	
JD54F00B2A	JM38510/33001B2A	54F00FMQB.	
JD54F00SCA	JM38510/33001SCA	54F00LMQB.	
JD54F00SDA	JM38510/33001SDA		
JD54F02BCA	JM38510/33301BCA	54F02DC	
JD54F02BDA	JM38510/33301BDA	54F02DMQB.	
JD54F02B2A	JM38510/33301B2A	54F02FMQB.	
JD54F02SCA	JM38510/33301SCA	54F02LMQB.	
JD54F04BCA	JM38510/33002BCA	54F04DC	
JD54F04BDA	JM38510/33002BDA	54F04DM.	
JD54F04B2A	JM38510/33002B2A	54F04DMQB.	5962-9759301QCA
JD54F04SCA	JM38510/33002SCA	54F04FMQB.	5962-9759301QDA
JD54F04SDA	JM38510/33002SDA	54F04LMQB.	5962-9759301Q2A

JD54F08BCA	JM38510/34001BCA	54F08DC	
JD54F08BDA	JM38510/34001BDA	54F08DM.	
JD54F08B2A	JM38510/34001B2A	54F08DMQB.	
JD54F08SCA	JM38510/34001SCA	54F08FMQB.	
JD54F08SDA	JM38510/34001SDA	54F08LMQB.	
JD54F10BCA	JM38510/33003BCA	54F10DC	
JD54F10BDA	JM38510/33003BDA	54F10DMQB.	
JD54F10B2A	JM38510/33003B2A	54F10FMQB.	
JD54F10SCA	JM38510/33003SCA	54F10LMQB.	
JD54F11BCA	JM38510/34002BCA	54F11DC	
JD54F11BDA	JM38510/34002BDA	54F11DMQB.	
JD54F11B2A	JM38510/34002B2A	54F11FMQB.	
JD54F11SCA	JM38510/34002SCA	54F11LMQB.	
JD54F11SDA	JM38510/34002SDA		
JD54F139BEA	JM38510/33702BEA	54F139DMQB.	
JD54F139BFA	JM38510/33702BFA	54F139FMQB.	
JD54F139B2A	JM38510/33702B2A	54F139LMQB.	
JD54F174BEA	JM38510/34107BEA	54F174DMQB.	
JD54F174BFA	JM38510/34107BFA	54F174FMQB.	
		54F174LMQB.	
JD54F194BEA	JM38510/33601BEA	54F194DC	
JD54F194BFA	JM38510/33601BFA	54F194DM.	
JD54F194B2A	JM38510/33601B2A	54F194DMQB.	
		54F194LMQB.	
JD54F20BCA	JM38510/33004BCA	54F20DC	
JD54F20BDA	JM38510/33004BDA	54F20DM.	
JD54F20B2A	JM38510/33004B2A	54F20DMQB.	5962-9758401QCA
JD54F20SCA	JM38510/33004SCA	54F20FMQB.	5962-9758401QDA

		54F20LMQB.	5962-9758401Q2A
JD54F32BCA	JM38510/33501BCA	54F32DC	
JD54F32BDA	JM38510/33501BDA	54F32DM.	
JD54F32B2A	JM38510/33501B2A	54F32DMQB.	
JD54F32SCA	JM38510/33501SCA	54F32FMQB.	
JD54F32SDA	JM38510/33501SDA	54F32LMQB.	
		54F378DMQB.	5962-8855501EA
		54F378FMQB.	5962-8855501FA
		54F379DC	
		54F379DMQB.	
		54F379LMQB.	
JD54F64BCA	JM38510/33401BCA	54F64DC	
JD54F64BDA	JM38510/33401BDA	54F64DMQB.	
JD54F64B2A	JM38510/33401B2A	54F64LMQB.	
JD54F86BCA	JM38510/34501BCA	54F86DC	
JD54F86BDA	JM38510/34501BDA	54F86DM.	
JD54F86B2A	JM38510/34501B2A	54F86DMQB.	
JD54F86SCA	JM38510/34501SCA	54F86FMQB.	
JD54F86SDA	JM38510/34501SDA	54F86LMQB.	
TABLE II:			
LS Product			
National Part Number	Slashsheet Number	National Part Number	Standard Microcircuit Drawing Number
JD54LS00BCA	JM38510/30001BCA		
JD54LS00BDA	JM38510/30001BDA		
JD54LS00SCA	JM38510/30001SCA		

JD54LS00SDA	JM38510/30001SDA		
JD54LS02BCA	JM38510/30301BCA	DM54LS02W-MLS	
JD54LS02BDA	JM38510/30301BDA		
JD54LS02SCA	JM38510/30301SCA		
JD54LS02SDA	JM38510/30301SDA		
JD54LS03BCA	JM38510/30002BCA		
JD54LS03BDA	JM38510/30002BDA		
JD54LS03SDA	JM38510/30002SDA		
JD54LS04BCA	JM38510/30003BCA	DM54LS04E/883	
JD54LS04BDA	JM38510/30003BDA	DM54LS04J/883	
JD54LS04B2A	JM38510/30003B2A	DM54LS04W/883	
JD54LS04SCA	JM38510/30003SCA		
JD54LS04SDA	JM38510/30003SDA		
JD54LS05BCA	JM38510/30004BCA		
JD54LS05BDA	JM38510/30004BDA		
JD54LS05B2A	JM38510/30004B2A		
JD54LS05SCA	JM38510/30004SCA		
JD54LS05SDA	JM38510/30004SDA		
JD54LS08BCA	JM38510/31004BCA	DM54LS08J-MLS	
JD54LS08BDA	JM38510/31004BDA	DM54LS08W-MLS	
JD54LS08B2A	JM38510/31004B2A		
JD54LS10BCA	JM38510/30005BCA		
JD54LS10BDA	JM38510/30005BDA		
JD54LS10B2A	JM38510/30005B2A		
JD54LS10SCA	JM38510/30005SCA		
JD54LS10SDA	JM38510/30005SDA		
JD54LS109BEA	JM38510/30109BEA	DM54LS109J/883	
JD54LS109BFA	JM38510/30109BFA	DM54LS109W-MLS	

JD54LS11SCA	JM38510/31001SCA		
JD54LS11SDA	JM38510/31001SDA		
JD54LS138BEA	JM38510/30701BEA	DM54LS138E/883	
JD54LS138BFA	JM38510/30701BFA	DM54LS138J/883	
JD54LS138SEA	JM38510/30701SEA	DM54LS138W/883	
JD54LS138SFA	JM38510/30701SFA		
JD54LS139BEA	JM38510/30702BEA	DM54LS139E/883	
JD54LS139BFA	JM38510/30702BFA	DM54LS139J/883	
JD54LS139SFA	JM38510/30702SFA		
		DM54LS14E/883	
		DM54LS14J-MLS	
		DM54LS14W-MLS	
JD54LS151BEA	JM38510/30901BEA	DM54LS151W-MLS	
JD54LS151BFA	JM38510/30901BFA		
JD54LS151B2A	JM38510/30901B2A		
JD54LS151SEA	JM38510/30901SEA		
JD54LS151SFA	JM38510/30901SFA		
JD54LS153BEA	JM38510/30902BEA		
JD54LS153BFA	JM38510/30902BFA		
JD54LS153B2A	JM38510/30902B2A		
JD54LS153SEA	JM38510/30902SEA		
JD54LS153SFA	JM38510/30902SFA		
		DM54LS154J/883	8301701JA
		DM54LS154W-MLS	
JD54LS157BEA	JM38510/30903BEA		
JD54LS157BFA	JM38510/30903BFA		
JD54LS157B2A	JM38510/30903B2A		
JD54LS157SEA	JM38510/30903SEA		

JD54LS158BEA	JM38510/30904BEA		
JD54LS158BFA	JM38510/30904BFA		
JD54LS158SEA	JM38510/30904SEA		
JD54LS161BEA	JM38510/31504BEA	DM54LS161AJ-MLS	
JD54LS161BFA	JM38510/31504BFA	DM54LS161AW-MLS	
JD54LS161B2A	JM38510/31504B2A	DM54LS161AW/883	
		DM54LS161J-MLS	
JD54LS164BCA	JM38510/30605BCA		
JD54LS164BDA	JM38510/30605BDA		
JD54LS164SCA	JM38510/30605SCA		
JD54LS164SDA	JM38510/30605SDA		
		DM54LS165J-MLS	
JD54LS169BEA	JM38510/31506BEA	DM54LS169J/883	
		DM54LS173J-MLS	
		DM54LS173W-MLS	
JD54LS174BEA	JM38510/30106BEA	DM54LS174J-MLS	
JD54LS174BFA	JM38510/30106BFA	DM54LS174J/883	
JD54LS174SEA	JM38510/30106SEA	DM54LS174W/883	
JD54LS174SFA	JM38510/30106SFA		
JD54LS175BEA	JM38510/30107BEA	DM54LS175W/883	
JD54LS175BFA	JM38510/30107BFA		
JD54LS175SEA	JM38510/30107SEA		
JD54LS175SFA	JM38510/30107SFA		
JD54LS193BEA	JM38510/31508BEA	DM54LS193E/883	
JD54LS193BFA	JM38510/31508BFA	DM54LS193W/883	
JD54LS193SEA	JM38510/31508SEA		
JD54LS193SFA	JM38510/31508SFA		
JD54LS194BEA	JM38510/30601BEA		

		DM54LS195AJ-MLS	
JD54LS20SDA	JM38510/30007SDA	DM54LS20E/883	
JD54LS251BEA	JM38510/30905BEA		
JD54LS251SFA	JM38510/30905SFA		
JD54LS257BEA	JM38510/30906BEA	DM54LS257AW-MLS	
JD54LS257BFA	JM38510/30906BFA		
JD54LS259BEA	JM38510/31603BEA	DM54LS259J/883	
JD54LS259BFA	JM38510/31603BFA		
JD54LS259B2A	JM38510/31603B2A		
		DM54LS26J-MLS	
		DM54LS260J/883	
JD54LS273BRA	JM38510/32501BRA	DM54LS273J-MLS	
JD54LS273B2A	JM38510/32501B2A	DM54LS273J/883	
JD54LS279BEA	JM38510/31602BEA	DM54LS279J/883	
JD54LS283BEA	JM38510/31202BEA	DM54LS283J-MLS	
JD54LS283BFA	JM38510/31202BFA		
JD54LS283B2A	JM38510/31202B2A		
		DM54LS299E/883	
JD54LS30BCA	JM38510/30009BCA	DM54LS30E/883	
JD54LS30BDA	JM38510/30009BDA		
JD54LS30SCA	JM38510/30009SCA		
JD54LS32BDA	JM38510/30501BDA	DM54LS32E/883	
		DM54LS32J-MLS	
		DM54LS32W-MLS	
JD54LS365BEA	JM38510/32201BEA		
JD54LS365B2A	JM38510/32201B2A		
JD54LS366BEA	JM38510/32202BEA		
JD54LS366BFA	JM38510/32202BFA		

JD54LS367BEA	JM38510/32203BEA	DM54LS367AJ/883	
JD54LS367BFA	JM38510/32203BFA	DM54LS367AW-MLS	
JD54LS367SEA	JM38510/32203SEA	DM54LS367AW/883	
JD54LS368BEA	JM38510/32204BEA	DM54LS368AJ-MLS	
JD54LS368BFA	JM38510/32204BFA		
		DM54LS373J/883	
		DM54LS42J/883	
		DM54LS502J/883	5962-9080001MEA
JD54LS54BCA	JM38510/30402BCA		
JD54LS670BEA	JM38510/31901BEA	DM54LS670W-MLS	
		DM54LS73W-MLS	
JD54LS74BCA	JM38510/30102BCA	DM54LS74J/883	
JD54LS74BDA	JM38510/30102BDA	DM54LS74W-MLS	
JD54LS74SCA	JM38510/30102SCA	DM54LS74W/883	
JD54LS74SDA	JM38510/30102SDA		
JD54LS85BEA	JM38510/31101BEA		
JD54LS85SEA	JM38510/31101SEA		
JD54LS85SFA	JM38510/31101SFA		
JD54LS86BCA	JM38510/30502BCA		
JD54LS86BDA	JM38510/30502BDA		
JD54LS86SCA	JM38510/30502SCA		
TABLE III:			
INTERFACE Product			
National Part Number	Standard Microcircuit Drawing Number		

DS1691AJ-SMD	5962-8672101EA		
DS1691AJ/883			
DS26LS31ME-SMD	5962-7802301Q2A		
DS26LS31MEFQML	5962F7802301Q2A		
DS26LS31MJ-MLS			
DS26LS31MJ-QMLV	5962-7802301VEA		
DS26LS31MJ-SMD	5962-7802301MEA		
DS26LS31MJ/883			
DS26LS31MJFQML	5962F7802301MEA		
DS26LS31MJFQMLV	5962F7802301VEA		
DS26LS31MW-QMLV	5962-7802301VFA		
DS26LS31MW-SMD	5962-7802301MFA		
DS26LS31MW/883			
DS26LS31MWFQML	5962F7802301MFA		
DS26LS31MWFQMLV	5962F7802301VFA		
DS26LS32ME/883	5962-7802006Q2A		
DS26LS32MJ-MLS			
DS26LS32MJ/883	5962-7802006QEA		
DS26LS32MW-MLS			
DS26LS32MW/883	5962-7802006QFA		
DS26LS33MJ/883			
DS9637AMJ/883	5962-8752401PA		
DS9638J/883	5962-8754601PA		

TABLE IV:			
HCMOS Product			

National Part Number	Standard Microcircuit Drawing Number		
MM54HC123AE/883	5962-86847022A		
MM54HC123AJ/883	5962-8684702EA		
MM54HC123AJ-MLS			



ENHANCED SOLUTIONS
DESIGN/PROCESS CHANGE NOTIFICATION
(formerly Military & Aerospace Division)

PCN Nr: MA2000-17

Issued: 09/28/2000

GIDEP Nr: AH6-C-01-01	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

Selective Analog Products (See Table I)

Proposed Date of Change:

Datecode xxxx and onward - See Table for device specific datecode

Due to the generation of a die bank in anticipation of this transfer, our customers may receive product from either wafer fab until depletion of the die bank.

Description of Change:

Wafer fabrication process transfer from Greenock, Scotland wafer fab (4 inch) to Arlington, Texas wafer fab (6 inch).

The wafer fab lot# prefix is listed below for ease of site location identification.

4" wafer fab lot# prefix was **H** ; 6" wafer fab lot# prefix is **E**

Effect of Change:

This wafer fab transfer was fully qualified by Enhanced Solutions formerly the Military Aerospace Division.

These changes will not adversely affect the device performance, quality or reliability.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Larry McGee, Analog Eng. Mgr. Tel: (408) 721-7231 email: larry.mcgee@nsc.com	

Other Ref: None

Associated Notes / Table(s):

TABLE I - Packaged Devices

Datecode 9950

<u>National Part Number</u>	<u>Standard Military Drawing Number</u>
JL2951BPA	5962-3870501BPA
JL2951S2A	5962-3870501S2A
JL2951SPA	5962-3870501SPA
LP2951E/883	5962-3870501M2A
LP2951H/883	5962-3870501MGA
LP2951H-MCP	
LP2951J/883	5962-3870501MPA
LP2951WG/883	5962-3870501MXA

Datecode 0020

<u>National Part Number</u>	<u>Standard Military Drawing Number</u>
LM1575J-ADJ-QML	5962-9167101MEA
LM1575HVK12-QML	5962-9167302QXA
LM1575J-12-QML	5962-9167301QEA
LM1575J-15-QML	5962-9167401QEA
LM1575HVK5-QML	5962-9167202QXA
LM1575J-5.0-QML	5962-9167201QEA
LM1575K-5.0-QML	5962-9167201MXA
LM1575HVKAD-QML	5962-9167102QXA
LM1575K-ADJ-QML	5962-9167101MXA



ENHANCED SOLUTIONS DESIGN/PROCESS CHANGE NOTIFICATION

(formerly Military & Aerospace Division)

PCN Nr: MA2000-18

Issued: 09/29/2000

GIDEP Nr: AH6-C-01-02	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

Selective Analog Products (See Tables I & II)

Proposed Date of Change:

Datecode xxxx and onward - See Tables for device specific datecode

Due to the generation of a die bank in anticipation of this transfer, our customers may receive product from either wafer fab until depletion of the die bank.

Description of Change:

Wafer fabrication process transfer from Greenock, Scotland wafer fab1 (4 inch) to Greenock, Scotland wafer fab3 (6 inch).

The wafer fab lot# prefix is listed below as an aid for our die sales customers for ease of site location identification.

4" wafer fab lot# prefix was **H** ; 6" wafer fab lot# prefix is **J**

Effect of Change:

This wafer fab transfer was fully qualified by Enhanced Solutions formerly the Military Aerospace Division.

These changes will not adversely affect the device performance, quality or reliability.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com

Other contacts

Larry McGee, Analog Eng. Mgr.
Tel: (408) 721-7231
email: larry.mcgee@nsc.com

Jacqueline Collard
Die products Business Unit Marketing
(207) 541-8760
email: jacqueline.l.collard@nsc.com

Other Ref: None

Associated Notes / Table(s):

TABLE I - Packaged Devices

Datecode 9952

<u>National Part Number</u>	<u>Standard Military Drawing Number</u>
LM123K/883	
LM138K/883	
LM150K/883	5962-8767501XA
LM185BYH2.5/883	
LM185BYH1.2-SMD	5962-8759405XA
LM185E-1.2/883	5962-87594012A
LM185H-1.2/883	
LM185H-1.2-SMD	5962-8759401XA
LM185WG-1.2/883	
LM185H-1.2-MLS	
LM185BYH2.5-SMD	5962-8759406XA
LM185H-2.5/883	
LM185H-2.5-SMD	5962-8759402XA
LM185BYH2.5-MLS	
LM185BE/883	
LM185BH/883	
LM185BYH/883	
LM185BYH-SMD	5962-9091401MXA

Datecode 0021

<u>National Part Number</u>	<u>Standard Military Drawing Number or Slashesheet Number</u>
JL109BYA	JM38510/10701BYA
LM109K/883	
LM137AH/883	
LM137H/883	
LM137H-SMD	7703403XA
JL137BXA	JM38510/11803BXA
JL137SXA	JM38510/11803SXA
LM137HVH/883	
LM137HVH-SMD	7703404XA
LM137HVH-MLS	
LM137HVK/883	
LM137HVK-SMD	7703404YA
LM137AK/883	
LM137K/883	
LM137K-SMD	7703403YA
JL137BYA	JM38510/11804BYA
JL137SYA	JM38510/11804SYA
LM137KPQML	5962P9951702QYA
LM137KPQMLV	5962P9951702VYA

Datecode 0024

<u>National Part Number</u>	<u>Standard Military Drawing Number or Slashesheet Number</u>
LM146J/883	
LM1558H/883	

LM1558J/883	
JL1558BGA	JM38510/10108BGA
LM741AH/883	
LM741H/883	
LM741J/883	
LM741W/883	
LM741WG/883	
JL741BCA	JM38510/10101BCA
JL741BGA	JM38510/10101BGA
JL741BHA	JM38510/10101BHA
JL741BPA	JM38510/10101BPA
JL741SGA	JM38510/10101SGA
JL741SPA	JM38510/10101SPA
LM747H/883	
LM747J/883	
LM747AH-MIL	
JL747BCA	JM38510/10102BCA
JL747BDA	JM38510/10102BDA
JL747BIA	JM38510/10102BIA
JL747SCA	JM38510/10102SCA
JL747SIA	JM38510/10102SIA

Datecode 0026

<u>National Part Number</u>	<u>Standard Military Drawing Number or Slashesheet Number</u>
LM2990J-12-QML	5962-9571001QEA
LM2990J-15-QML	5962-9570901QEA
LM2990J-5.0-QML	5962-9571101QEA
LM2990WG-12-QML	5962-9571001QXA
LM2990WG-15-QML	5962-9570901QXA
LM2990WG5.0-QML	5962-9571101QXA
LM2991J-QML	5962-9650501QEA
LM2991J-QMLV	5962-9650501VEA
LM2991WG-QML	5962-9650501QXA
LM2991J-MLS	

Datecode 0031

<u>National Part Number</u>	<u>Standard Military Drawing Number or Slashesheet Number</u>
LM111E/883	
JL111B2A	JM38510/10304B2A
JL111BCA	JM38510/10304BCA
JL111BGA	JM38510/10304BGA
JL111BHA	JM38510/10304BHA
JL111BPA	JM38510/10304BPA
JL111SGA	JM38510/10304SGA
JL111SHA	JM38510/10304SHA
JL111SPA	JM38510/10304SPA
LM111E-MLS	
LM111W-MLS	
LM111H/883	
LM111J/883	
LM111W/883	
LM111WG/883	
LM111HPQML	5962P0052401QGA
LM111HPQMLV	5962P0052401VGA

LM111J-8PQML	5962P0052401QPA
LM111J-8PQMLV	5962P0052401VPA
LM111WGPQML	5962P0052401QZA
LM111WGPQMLV	5962P0052401VZA
LM119E/883	
LM119E-SMD	86014012A
LM119H/883	
LM119H-SMD	86014011A
LM119J/883	
LM119J-SMD	8601401CA
LM119W/883	
LM119WG/883	
LM119WG-SMD	8601401XA
LM119W-SMD	8601401HA
LM119H-QMLV	5962-9679801VIA
LM119J-MLS	
LM119J-QMLV	5962-9679801VCA
LM119W-QMLV	5962-9679801VHA
JL119BCA	JM38510/10306BCA
JL119BIA	JM38510/10306BIA
LM556J-MIL	

TABLE II - Die Sales

Datecode 9952

LM150G MD8
LM185-1.2 MW8
LM185-2.5 MWA

Datecode 0021

LM109K MW8
LM137H MDA
LM137H MDS
LM137H MWA
LM137K MDA
LM137KG MD8
LM137KG MW8

Datecode 0024

LM1558 MDA
LM1558 MW8
LM741 MDS
LM747L MW8

Datecode 0026

LM1991 MDS
LM2991 MD8

Datecode 0031

LM111 MDA
LM111 MWA
LM111 MW8
LM119 MW8



ENHANCED SOLUTIONS ***DESIGN/PROCESS CHANGE NOTIFICATION***

(formerly Military & Aerospace Division)

PCN Nr: MA2000-18A

Issued: 10/16/2000

GIDEP Nr: AH6-C-01-02A	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

Selective Analog Products (See Tables I & II)

Note:

Amendment A is being issued to correct the devices listed in Table I Datecode 0024 and to identify devices that have changed glassivation composition in Tables I & II Datecode 0024.

Proposed Date of Change:

Datecode xxxx and onward - See Tables for device specific datecode

Due to the generation of a die bank in anticipation of this transfer, our customers may receive product from either wafer fab until depletion of the die bank.

Description of Change:

Wafer fabrication process transfer from Greenock, Scotland wafer fab1 (4 inch) to Greenock, Scotland wafer fab3 (6 inch).

The wafer fab lot# prefix is listed below as an aid for our die sales customers for ease of site location identification.

4" wafer fab lot# prefix was **H** ; 6" wafer fab lot# prefix is **J**

Additionally, some devices changed glassivation composition from VOM to VOM Nitride during the wafer fabrication transfer. These devices have been identified in the Tables with an asterisk * All other devices were already being fabricated with VOM Nitride glassivation and supplied to customers.

Effect of Change:

This wafer fab transfer was fully qualified by Enhanced Solutions formerly the Military Aerospace Division.

These changes will not adversely affect the device performance, quality or reliability.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402

PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	<p>Larry McGee, Analog Eng. Mgr. Tel: (408) 721-7231 email: larry.mcgee@nsc.com</p> <p>Jacqueline Collard Die products Business Unit Marketing (207) 541-8760 email: jacqueline.l.collard@nsc.com</p>	

Other Ref: None

Associated Notes / Table(s):

TABLE I - Packaged Devices

Datecode 9952

<u>National Part Number</u>	<u>Standard Military Drawing Number</u>
LM123K/883	
LM138K/883	
LM150K/883	5962-8767501XA
LM185BYH2.5/883	
LM185BYH1.2-SMD	5962-8759405XA
LM185E-1.2/883	5962-87594012A
LM185H-1.2/883	
LM185H-1.2-SMD	5962-8759401XA
LM185WG-1.2/883	
LM185H-1.2-MLS	
LM185BYH2.5-SMD	5962-8759406XA
LM185H-2.5/883	
LM185H-2.5-SMD	5962-8759402XA
LM185BYH2.5-MLS	
LM185BE/883	
LM185BH/883	
LM185BYH/883	
LM185BYH-SMD	5962-9091401MXA

Datecode 0021

<u>National Part Number</u>	<u>Standard Military Drawing Number or Slashesheet Number</u>
JL109BYA	JM38510/10701BYA
LM109K/883	
LM137AH/883	
LM137H/883	
LM137H-SMD	7703403XA
JL137BXA	JM38510/11803BXA
JL137SXA	JM38510/11803SXA
LM137HVH/883	
LM137HVH-SMD	7703404XA
LM137HVH-MLS	
LM137HVK/883	
LM137HVK-SMD	7703404YA
LM137AK/883	
LM137K/883	
LM137K-SMD	7703403YA
JL137BYA	JM38510/11804BYA
JL137SYA	JM38510/11804SYA
LM137KPQML	5962P9951702QYA
LM137KPQMLV	5962P9951702VYA

Datecode 0024

<u>National Part Number</u>	<u>Standard Military Drawing Number or Slashesheet Number</u>
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LM10H/883

5962-8760401GA

- *LM146J/883
- *LM1558H/883
- *LM1558J/883
- *LM741H/883
- *LM741J/883
- *LM741W/883
- *LM741WG/883
- *LM747H/883
- *LM747J/883

*** Converted to VOM Nitride glassivation**

Datecode 0026

<u>National Part Number</u>	<u>Standard Military Drawing Number or Slashesheet Number</u>
LM2990J-12-QML	5962-9571001QEA
LM2990J-15-QML	5962-9570901QEA
LM2990J-5.0-QML	5962-9571101QEA
LM2990WG-12-QML	5962-9571001QXA
LM2990WG-15-QML	5962-9570901QXA
LM2990WG5.0-QML	5962-9571101QXA
LM2991J-QML	5962-9650501QEA
LM2991J-QMLV	5962-9650501VEA
LM2991WG-QML	5962-9650501QXA
LM2991J-MLS	

Datecode 0031

<u>National Part Number</u>	<u>Standard Military Drawing Number or Slashesheet Number</u>
LM111E/883	
JL111B2A	JM38510/10304B2A
JL111BCA	JM38510/10304BCA
JL111BGA	JM38510/10304BGA
JL111BHA	JM38510/10304BHA
JL111BPA	JM38510/10304BPA
JL111SGA	JM38510/10304SGA
JL111SHA	JM38510/10304SHA
JL111SPA	JM38510/10304SPA
LM111E-MLS	
LM111W-MLS	
LM111H/883	
LM111J/883	
LM111W/883	
LM111WG/883	
LM111HPQML	5962P0052401QGA
LM111HPQMLV	5962P0052401VGA
LM111J-8PQML	5962P0052401QPA
LM111J-8PQMLV	5962P0052401VPA
LM111WGPQML	5962P0052401QZA
LM111WGPQMLV	5962P0052401VZA
LM119E/883	

LM119E-SMD	86014012A
LM119H/883	
LM119H-SMD	86014011A
LM119J/883	
LM119J-SMD	8601401CA
LM119W/883	
LM119WG/883	
LM119WG-SMD	8601401XA
LM119W-SMD	8601401HA
LM119H-QMLV	5962-9679801VIA
LM119J-MLS	
LM119J-QMLV	5962-9679801VCA
LM119W-QMLV	5962-9679801VHA
JL119BCA	JM38510/10306BCA
JL119BIA	JM38510/10306BIA
LM556J-MIL	

TABLE II - Die Sales

Datecode 9952

LM150G MD8
LM185-1.2 MW8
LM185-2.5 MWA

Datecode 0021

LM109K MW8
LM137H MDA
LM137H MDS
LM137H MWA
LM137K MDA
LM137KG MD8
LM137KG MW8

Datecode 0024

*LM1558 MDA
*LM1558 MW8
*LM741 MDS
*LM747L MW8

*** Converted to VOM Nitride glassivation**

Datecode 0026

LM1991 MDS
LM2991 MD8

Datecode 0031

LM111 MDA
LM111 MWA
LM111 MW8
LM119 MW8



ENHANCED SOLUTIONS DESIGN/PROCESS CHANGE NOTIFICATION

(formerly Military & Aerospace Division)

PCN Nr: MA2000-19

Issued: 10/16/2000

GIDEP Nr: AH6-C-01-03	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

Selective Analog Products (See Tables I & II)

Proposed Date of Change:

Datecode xxxx and onward - See Tables for device specific datecode

Due to the generation of a die bank in anticipation of this transfer, our customers may receive product from either wafer fab until depletion of the die bank.

Description of Change:

Wafer Fab Transfer and Die Size Reduction

Wafer fabrication process transfer from Greenock, Scotland wafer fab (4 inch) to Arlington, Texas wafer fab (6 inch).

The wafer fab lot# prefix is listed below for ease of site location identification.

4" wafer fab lot# prefix was **H** ; 6" wafer fab lot# prefix is **E**

Additionally, the die sizes have been reduced and the glassivation composition is VOM Nitride.

Part Type	Original Die Rev & Die Size	New Die Rev & Die size	Size change	Glassivation Composition
LM124 (LM1902)	Rev F 62 x 60 mils	Rev H 56 x 53 mils	22% reduction	Was: VOM Is: VOM Nitride
LM139 (LM1901)	Rev F 47 x 47 mils	Rev H 42 x 41 mils	22% reduction	Was VOM Is: VOM Nitride
LM158	Rev C 52 x 42 mils	Rev D 48 x 37 mils	19% reduction	Was: VOM Is: VOM Nitride
LM193	Rev B 36 x 40 mils	Rev H 33 x 34 mils	22% reduction	Was: Vom Nitride Is: Vom Nitride

Effect of Change:

This wafer fab transfer and die size reductions were fully qualified by Enhanced Solutions formerly the Military Aerospace Division.

These changes will not adversely affect the device performance, quality or reliability.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Larry McGee, Analog Eng. Mgr. Tel: (408)721-7231 email: larry.mcgee@nsc.com Jacqueline Collard Die products Business Unit Marketing (207) 541-8760 email: jacqueline.l.collard@nsc.com	

Other Ref: None

Associated Notes / Table(s):

TABLE I - PACKAGED PRODUCTS

Datecode 9952

<u>National Part Number</u>	<u>Standard Military Drawing Number or Slashesheet Number</u>
LM124AE/883	77043022A
LM124AJ/883	7704302CA
LM124AW/883	
LM124AWG/883	7704302XA
LM124J/883	7704301CA
LM124WG/883	7704301XA
JL124ABCA	JM38510/11006BCA
JL124ABDA	JM38510/11006BDA
JL124BCA	JM38510/11005BCA
JL124BDA	JM38510/11005BDA
JL124ASCA	JM38510/11006SCA
JL124ASDA	JM38510/11006SDA
JL124SCA	JM38510/11005SCA
JL124SDA	JM38510/11005SDA
LM124AW-MLS	
LM124AJRQML	5962R9950401QCA
LM124AJRQMLV	5962R9950401VCA
LM124AWGRQML	5962R9950401QZA
LM124AWGRQMLV	5962R9950401VZA
LM124AWRQML	5962R9950401QDA
LM124AWRQMLV	5962R9950401VDA

Datecode 9951

<u>National Part Number</u>	<u>Standard Military Drawing Number or Slashesheet Number</u>
LM139AE/883	
LM139AE-SMD	5962-87739012A
LM139AJ/883	
LM139AJ-SMD	5962-8773901CA
LM139AW/883	
LM139AWG/883	
LM139AWG-SMD	5962-8773901XA
LM139AW-SMD	5962-8773901DA
LM139E/883	
LM139J/883	
LM139W/883	
LM139WG/883	
JL139BCA	JM38510/11201BCA
JL139BDA	JM38510/11201BDA
JL139SCA	JM38510/11201SCA
JL139SDA	JM38510/11201SDA
LM139AJ-MLS	
LM139AJ-QMLV	5962-9673801VCA
LM139AWG-QMLV	5962-9673801VXA
LM139AW-MLS	

LM139AW-QMLV	5962-9673801VDA
LM139W-MLS	
LM139AJRQML	5962R9673801QCA
LM139AJRQMLV	5962R9673801VCA
LM139AWGRQML	5962R9673801QXA
LM139AWGRQMLV	5962R9673801VXA
LM139AWRQML	5962R9673801QDA
LM139AWRQMLV	5962R9673801VDA

Datecode 9952

<u>National Part Number</u>	<u>Standard Military Drawing Number or Slashesheet Number</u>
LM158AH/883	
LM158AH-SMD	5962-8771002GA
LM158AJ/883	5962-8771002PA
LM158AWG/883	5962-8771002QXA
LM158H-SMD	5962-8771001GA
LM158H/883	
LM158J/883	5962-8771001PA
LM158AH-MLS	
LM158AH-QMLV	5962-8771002VGA
LM158AJ-MLS	
LM158AJ-QMLV	5962-8771002VPA
LM158AWG-QMLV	5962-8771002VXA
LM158AHLQML	5962L8771002QGA
LM158AHLQMLV	5962L8771002VGA
LM158AJLQML	5962L8771002QPA
LM158AJLQMLV	5962L8771002VPA

Datecode 0024

<u>National Part Number</u>	<u>Standard Military Drawing Number or Slashesheet Number</u>
LM193AH/883	5962-9452602MGA
LM193AJ/883	5962-9452602MPA
LM193H/883	
LM193J/883	
JL193BGA	JM38510/11202BGA
JL193BPA	JM38510/11202BPA
LM193AJ-QMLV	5962-9452602VPA
LM193AH-QMLV	5962-9452602VGA
LM193AH-MLS	
LM193AJ-MLS	
LM193H-MLS	

TABLE II - DIE PRODUCTS

Datecode 9952

LM124 MDS
LM124 MD8
LM124 MWA
LM124 MW8

Datecode 9951

LM139 MDA
LM139 MDS
LM139 MD8
LM139 MWA

Datecode 9952

LM158 MDS
LM158 MW8

Datecode 0024

LM193 MDA
LM193 MD8
LM193 MWA
LM193 MW8



ENHANCED SOLUTIONS ***DESIGN/PROCESS CHANGE NOTIFICATION***

(formerly Military & Aerospace Division)

PCN Nr: MA2000-20

Issued: 10/27/2000

GIDEP Nr: AH6-C-01-04	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

Selective Analog Products (See Tables I & II)

Proposed Date of Change:

Datecode 0031 and onward

Due to the generation of a die bank in anticipation of this transfer, our customers may receive product from either wafer fab until depletion of the die bank.

Description of Change:

Wafer fabrication process transfer from Greenock, Scotland wafer fab1 (4 inch) to Greenock, Scotland wafer fab3 (6 inch).

The wafer fab lot# prefix is listed below as an aid for our die sales customers for ease of site location identification.

4" wafer fab lot# prefix was **H** ; 6" wafer fab lot# prefix is **J**

Additionally, the LM148 and LF156 devices changed glassivation composition from VOM to VOM Nitride during the wafer fabrication transfer. The LM160 and LM161 devices were already being fabricated with VOM Nitride glassivation and supplied to customers.

Effect of Change:

This wafer fab transfer and glassivation composition changes were fully qualified by Enhanced Solutions formerly the Military Aerospace Division.

These changes will not adversely affect the device performance, quality or reliability.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com

Other contacts

Larry McGee, Analog Eng. Mgr.
Tel: (408) 721-7231
email: larry.mcgee@nsc.com

Jacqueline Collard
Die products Business Unit Marketing
(207) 541-8760
email: jacqueline.l.collard@nsc.com

Other Ref: None

Associated Notes / Table(s):

TABLE I - PACKAGED PRODUCTS

<u>National Part Number</u>	<u>Slashsheet or SMD Part Number</u>
LF156H/883	
JL156BGA	JM38510/11402BGA
JL156SGA	JM38510/11402SGA
LM148E/883	
LM148J/883	
JL148BCA	JM38510/11001BCA
JL148BDA	JM38510/11001BDA
JL148BZA	JM38510/11001BZA
JL148SCA	JM38510/11001SCA
JL148SDA	JM38510/11001SDA
LM160H/883	5962-8767401GA
LM161H/883	

TABLE II - DIE PRODUCTS

<u>Die Name</u>
LF156 MW8
LM148 MW8



ENHANCED SOLUTIONS ***DESIGN/PROCESS CHANGE NOTIFICATION***

(formerly Military & Aerospace Division)

PCN Nr: MA2000-21

Issued: 11/07/2000

GIDEP Nr: AH6-C-01-05	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

Selective Analog Products (See Tables I & II)

Proposed Date of Change:

Datecode 0035 and onward

Due to the generation of a die bank in anticipation of this transfer, our customers may receive product from either wafer fab until depletion of the die bank.

Description of Change:

Wafer fabrication process transfer from Greenock, Scotland wafer fab (6 inch) to Arlington, Texas wafer fab (6 inch).

The wafer fab lot# prefix is listed below for ease of site location identification.

6" wafer fab lot# prefix was **J** ; 6" wafer fab lot# prefix is **X**

Effect of Change:

This wafer fab transfer was fully qualified by Enhanced Solutions formerly the Military Aerospace Division.

These changes will not adversely affect the device performance, quality or reliability

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Larry McGee, Analog Eng. Mgr. Tel: (408)721-7231 email: larry.mcgee@nsc.com Jacqueline Collard Die products Business Unit Marketing	

(207) 541-8760
email: jacqueline.l.collard@nsc.com

Other Ref: None

Associated Notes / Table(s):

TABLE I - Packaged Devices

<u>National Part Number</u>	<u>Standard Military Drawing Number</u>
LMC555J/883	5962-8950305PA
LMC6462AMJ-QML	5962-9560301QPA
LMC6464AMJ-QML	5962-9560302QCA
LMC6464AMWG-QML	5962-9560302QXA
LMC6482AMJ/883	5962-9453401MPA
LMC6484AMJ/883	5962-9453402MCA
LMC6484AMWG/883	5962-9453402QXA

TABLE II - Die products

LMC555 MWA
LMC6482 MDA
LMC6482 MWA



ENHANCED SOLUTIONS DESIGN/PROCESS CHANGE NOTIFICATION

(formerly Military & Aerospace Division)

PCN Nr: MA2000-22

Issued: 11/13/2000

GIDEP Nr: AH6-C-01-06	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

Selective Analog Products (See Tables I & II)

Proposed Date of Change:

Datecode xxxx and onward - See Tables for device specific datecode

Due to the generation of a die bank in anticipation of this transfer, our customers may receive product from either wafer fab until depletion of the die bank.

Description of Change:

Wafer fabrication process transfer from Greenock, Scotland wafer fab1 (4 inch) to Greenock, Scotland wafer fab3 (6 inch).

The wafer fab lot# prefix is listed below as an aid for our die sales customers for ease of site location identification.

4" wafer fab lot# prefix was **H** ; 6" wafer fab lot# prefix is **J**

Additionally, the LM101 and LM118 devices changed glassivation composition from VOM to VOM Nitride during the wafer fabrication transfer. The other devices listed were already being fabricated with VOM Nitride glassivation and supplied to customers.

Effect of Change:

The wafer fab transfer and glassivation composition change were fully qualified by Enhanced Solutions formerly the Military Aerospace Division.

These changes will not adversely affect the device performance, quality or reliability.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com

Other contacts

Larry McGee, Analog Eng. Mgr.
Tel: (408) 721-7231
email: larry.mcgee@nsc.com

Jacqueline Collard
Die products Business Unit Marketing
(207) 541-8760
email: jacqueline.l.collard@nsc.com

Other Ref: None

Associated Notes / Table(s):

TABLE I - PACKAGED PRODUCTS

Datecode 0036

National Part Number	Slashesheet or SMD Part Number
LM101AH/883	
LM101AJ/883	
LM101AW/883	
LM101AW-MLS	
LM101AHRQML	5962R9951501QGA
LM101AHRQMLV	5962R9951501VGA
LM101AWRQML	5962R9951501QHA
LM101AWRQMLV	5962R9951501VHA
LM101AJRQML	5962R9951501QPA
LM101AJRQMLV	5962R9951501VPA
JL101ABCA	JM38510/10103BCA
JL101ABGA	JM38510/10103BGA
JL101ABHA	JM38510/10103BHA
JL101ABPA	JM38510/10103BPA
JL101ASGA	JM38510/10103SGA
JL101ASHA	JM38510/10103SHA
JL101ASPA	JM38510/10103SPA
LM118H/883	
LM118J/883	
LM118J-8/883	
LM118WG/883	5962-9853901QZA
LM118HPQML	5962P9853901QGA
LM118HPQMLV	5962P9853901VGA
LM118J-8PQMLV	5962P9853901VPA
LM118J-8QML	5962P9853901QPA
LM118WGPQML	5962P9853901QZA
LM118WGPQMLV	5962P9853901VZA
JL118BCA	JM38510/10107BCA
JL118BGA	JM38510/10107BGA
JL118BHA	JM38510/10107BHA
JL118BPA	JM38510/10107BPA
JL118SGA	JM38510/10107SGA
JL118SHA	JM38510/10107SHA
JL118SPA	JM38510/10107SPA
LM4250J-MIL	
LM555H/883	
LM555J/883	
LM555H-MLS	
LM725AH/883	
LM725H/883	5962-9552901MGA
LM748H/883	

Datecode 0032

National Part Number	Slashesheet Part Number
LF198H/883	
JL198BGA	JM38510/12501BGA
JL198SGA	JM38510/12501SGA

TABLE II - DIE PRODUCTS

Datecode 0036

Die Name

LM101A MW8

LM118 MW8

LM555 MW8



ENHANCED SOLUTIONS DESIGN/PROCESS CHANGE NOTIFICATION

(formerly Military & Aerospace Division)

PCN Nr: MA2000-23

Issued: 11/28/2000

GIDEP Nr: AH6-D-01-01	GIDEP Category: DMSMS	TRB Nr:
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Product ID (Description):

TABLE I - Packaged Product Managed by Enhanced Solutions

Proposed Date of Change:

Lifetime buy purchase orders will be accepted until **4 December 2001**.

Description of Change:

PRODUCT OBSOLESCENCE

National Semiconductor wishes to inform you that the devices listed in Table I are being discontinued. The decision to obsolete these products was primarily due to low volume or minimal demand from our customer base.

Effect of Change:

While all best efforts will be made to ensure that product can be supplied for any order received during the Life Time Buy period, this cannot be guaranteed. We would therefore advise that you do not wait until the last moment before placing your final orders.

Suggested alternate devices and manufacturers are viable at the time of publication of this document.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Mike Scott Enhanced Solutions Marketing (408) 721-5491 mike.scott@nsc.com	

Other Ref: None

Associated Notes / Table(s):

TABLE I

OBSOLETE NATIONAL PART NUMBER	OBSOLETE SMD/JAN NO.	SUGGESTED REPLACEMENT	ALTERNATE SOURCE	SUGGESTED SMD/JAN NO.
54ACT163FM-MLS		54ACT163WRQMLV	NATIONAL	5962R9172301VFA
54ACT245DM.		54ACT245DMQB	NATIONAL	5962-8766301MRA
54ACT373DM.		54ACT373DMQB	NATIONAL	5962-8755601RA
54ACT899DM.		54ACT899DMQB	NATIONAL	5962-9314101MXA
54ACTQ646SDM.		54ACTQ646SDMQB	NATIONAL	5962-9219601MLA
54F08DM.		54F08DMQB	NATIONAL	
54F194FM-MIL		JD54F194BFA	NATIONAL	JM38510/33601BFA
54F219LLQB.		54F219LMQB	NATIONAL	
54F283DM.		54F283DMQB	NATIONAL	
54F407DMQB.			NONE	
54F86DM.		54F86DMQB	NATIONAL	
54FCT244FM-MLS		JM54ACT244SSA-R	NATIONAL	5962R8776001SSA
54FCT574FM-MLS		JM54ACT574SSA-R	NATIONAL	5962R8960101SSA
93L28DMQB.		DM9328J/883	NATIONAL	5962-9558501QEA
946DMQB.			NONE	
946FMQB.			NONE	
96L02DMQB.			NONE	
96LS02DMQB.			NONE	
DM54161J/883		54F161ADMQB	NATIONAL	
DM54194J/883		54F194DMQB	NATIONAL	
DM54LS02W-MLS		JD54LS02SDA	NATIONAL	JM38510/30301SDA
DM54LS151W-MLS		JD54LS151SFA	NATIONAL	JM38510/30901SFA
DM54LS154J/883	8301701JA		ROCHESTER	
DM54LS174J-MLS		JD54LS174SEA	NATIONAL	JM38510/30106SEA
DM54LS74W-MLS		JD54LS174SFA	NATIONAL	JM38510/30106SFA
DM9601J/883			NONE	
DM9601W/883			NONE	
DM9602J/883			NONE	
JD54L73BCA	JM38510/02103BCA		NONE	
JD54L73BDA	JM38510/02103BDA		NONE	
JD54L95BDA	JM38510/02801BDA		NONE	
JD9601BCA	JM38510/01204BCA		NONE	
JD9602BEA	JM38510/01205BEA		NONE	
JD9602BFA	JM38510/01205BFA		NONE	
JD9946BCA	JM38510/03004BCA		NONE	
LM139AW-MLS		LM139AW-QMLV	NATIONAL	5962-9673801VDA
LM158AH-MLS		LM158AHLQMLV	NATIONAL	5962L8771002VGA



ENHANCED SOLUTIONS DESIGN/PROCESS CHANGE NOTIFICATION

(formerly Military & Aerospace Division)

PCN Nr: MA2000-24

Issued: 11/29/2000

GIDEP Nr: AH6-C-01-07	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

Selective Analog Products (See Tables I & II)

Proposed Date of Change:

Datecode xxxx and onward - See Tables for device specific datecode

Due to the generation of a die bank in anticipation of this transfer, our customers may receive product from either wafer fab until depletion of the die bank.

Description of Change:

Wafer fabrication process transfer from Greenock, Scotland wafer fab1 (4 inch)to Greenock, Scotland wafer fab3 (6 inch).

The wafer fab lot# prefix is listed below as an aid for our die sales customers for ease of site location identification.

4" wafer fab lot# prefix was **H**

6" wafer fab lot# prefix is **J**

Effect of Change:

The wafer fab transfer was fully qualified by Enhanced Solutions formerly the Military Aerospace Division.

This change will not adversely affect the device performance, quality or reliability.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Larry McGee, Analog Eng. Mgr. Tel: (408) 721-7231 email: larry.mcgee@nsc.com	

	Jacqueline Collard Die products Business Unit Marketing (207) 541-8760 email: jacqueline.l.collard@nsc.com	
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Other Ref: None

Associated Notes / Table(s):

TABLE I - PACKAGED PRODUCTS

Datecode 0032

National	Slashsheet or SMD
<u>Part Number</u>	<u>Part Number</u>
LP2953AMJ/883	5962-9233601MEA
LP2953AMJ-MLS	
LP2953AMJ-QMLV	5962-9233601VEA
LP2953AMWG/883	5962-9233601QXA
LP2953AMWG-MLS	
LP2953AMWG-QMLV	5962-9233601VXA
LP2956AMJ-QML	5962-9554701QEA

Datecode 0041

National	Slashsheet or SMD
<u>Part Number</u>	<u>Part Number</u>
LM109H/883	
JL109BXA	JM38510/10701BXA

TABLE II - DIE PRODUCTS

Datecode 0032

<u>Die Name</u>
LP2953 MDS



ENHANCED SOLUTIONS DESIGN/PROCESS CHANGE NOTIFICATION

(formerly Military & Aerospace Division)

PCN Nr: MA2000-25

Issued: 12/14/2000

GIDEP Nr: AH6-C-01-08	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

LM117 Products (See Tables I & II)

Proposed Date of Change:

Datecode 0038 and onward

Due to the generation of a die bank in anticipation of this transfer, our customers may receive product from either wafer fab until depletion of the die bank.

Description of Change:

Wafer Fab Transfer

Wafer fabrication process transfer from Greenock, Scotland wafer fab (4 inch) to Arlington, Texas wafer fab (6 inch).

The wafer fab lot# prefix is listed below for ease of site location identification.

4" wafer fab lot# prefix was **H** ; 6" wafer fab lot# prefix is **E**

Effect of Change:

This wafer fab transfer was fully qualified by Enhanced Solutions formerly the Military Aerospace Division.

These changes will not adversely affect the device performance, quality or reliability.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Larry McGee, Analog Eng. Mgr. Tel: (408)721-7231 email: larry.mcgee@nsc.com	

	Jacqueline Collard Die products Business Unit Marketing (207) 541-8760 email: jacqueline.l.collard@nsc.com	
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Other Ref: None

Associated Notes / Table(s):

TABLE I - PACKAGED PRODUCTS

Datecode 0038

<u>National Part Number</u>	<u>Standard Military Drawing Number or Slashesheet Number</u>
LM117E/883	
LM117H/883	
JL117BXA	JM38510/11703BXA
JL117SXA	JM38510/11703SXA
LM117HVH-MLS	
LM117HVH/883	
LM117HVK/883	
LM117K/883	
JL117BYA	JM38510/11704BYA
JL117SYA	JM38510/11704SYA
LM117HVK-MLS	
LM117KRQML	5962R9951704QYA
LM117KRQMLV	5962R9951704VYA
LM117HRQML	5962R9951703QXA
LM117HRQMLV	5962R9951703VXA

TABLE II - DIE PRODUCTS

Datecode 0038

LM117 MDS
LM117H MD8
LM117H MW8
LM117HG MW8
LM117K MDS
LM117KG MD8
LM117KG MW8



ENHANCED SOLUTIONS DESIGN/PROCESS CHANGE NOTIFICATION

(formerly Military & Aerospace Division)

PCN Nr: MA2000-26

Issued: 12/14/2000

GIDEP Nr: AH6-C-01-09	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

DS16F95 Products (See Tables I & II)

Proposed Date of Change:

Datecode 0043 and onward

Due to the generation of a die bank in anticipation of this transfer, our customers may receive product from either wafer fab until depletion of the die bank.

Description of Change:

Wafer fabrication process transfer from Greenock, Scotland wafer fab (6 inch) to Arlington, Texas wafer fab (6 inch).

The wafer fab lot# prefix is listed below for ease of site location identification.

6" wafer fab lot# prefix was **J** ; 6" wafer fab lot# prefix is **E**

Effect of Change:

This wafer fab transfer was fully qualified by Enhanced Solutions formerly the Military Aerospace Division.

These changes will not adversely affect the device performance, quality or reliability.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Larry McGee, Analog Eng. Mgr. Tel: (408)721-7231 email: larry.mcgee@nsc.com	

Other Ref: None

Associated Notes / Table(s):

TABLE I - Packaged Devices

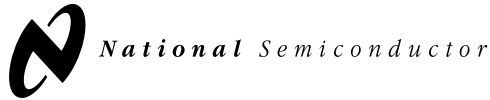
Datecode 0043

<u>National Part Number</u>	<u>Standard Military Drawing Number</u>
DS16F95E/883	5962-89615012A
DS16F95J-QMLV	5962-8961501VPA
DS16F95J/883	5962-8961501PA
DS16F95JFQML	5962F8961501QPA
DS16F95JFQMLV	5962F8961501VPA
DS16F95W-QMLV	5962-8961501VHA
DS16F95W-SMD	5962-8961501QHA
DS16F95W/883	NONE
DS16F95WFQML	5962F8961501QHA
DS16F95WFQMLV	5962F8961501VHA
DS16F95WG-QMLV	5962-8961501VXA
DS16F95WG/883	5962-8961501QXA
DS16F95WGFQML	5962F8961501QXA
DS16F95WGFQMLV	5962F8961501VXA

TABLE II - Die Sales

Datecode 0043

DS16F95 MDA
DS16F95 MDS



ENHANCED SOLUTIONS DESIGN/PROCESS CHANGE NOTIFICATION

(formerly Military & Aerospace Division)

PCN Nr: MA2000-27

Issued: 12/22/2000

GIDEP Nr: AH6-C-01-10	GIDEP Category: PCN	TRB Nr:
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Product ID (Description):

LM185 Products (see Tables I and II)

Proposed Date of Change:

Datecode 0044 and onward

Description of Change:

Wafer Fab Transfer

Wafer fabrication process transfer from Greenock, Scotland wafer fab (4 inch) to Arlington, Texas wafer fab (6 inch).

The wafer fab lot# prefix is listed below for ease of site location identification.

4" wafer fab lot# prefix was **H** ; 6" wafer fab lot# prefix is **E**

This wafer process transfer to Texas is in addition to the currently approved Scotland 6" wafer fabrication process. For this device family , there will now be dual sourcing capability. Customers may receive die from either or both facilities. (reference PCN# MA2000-18 for the Scotland 6" notification.)

Effect of Change:

This wafer fab transfer was fully qualified by Enhanced Solutions formerly the Military Aerospace Division.

These changes will not adversely affect the device performance, quality or reliability.

In Case of further questions please contact:

	North America	Europe
QA / Spec Control	Tel: 408-721-5649	Tel: +49 (0)8141 35-1483 / 1402
PCN Administrator	Tel: 408-721-4189 Email: sherry.dobbins@nsc.com	Eur Enhanced Solutions Marketing: Tel: +49 (0)8141 35 1492 Email: tony.may@nsc.com
Customer Support Center	Tel: 1-800-272-9959 Email: support@nsc.com	Tel: +49 (0)180 530 8585 (German) Tel: +49 (0)180 532 7832 (English) Email: europe.support@nsc.com
Other contacts	Larry McGee, Analog Eng. Mgr. Tel: (408)721-7231	

email: larry.mcgee@nsc.com

Jacqueline Collard
Die products Business Unit Marketing
(207) 541-8760
email: jacqueline.l.collard@nsc.com

Other Ref: None

Associated Notes / Table(s):

TABLE I - PACKAGED PRODUCTS

Datecode 0044

<u>National Part Number</u>	<u>Standard Military Drawing Number</u>
LM185BYH2.5/883	
LM185BYH1.2-SMD	5962-8759405XA
LM185E-1.2/883	5962-87594012A
LM185H-1.2/883	
LM185H-1.2-SMD	5962-8759401XA
LM185WG-1.2/883	5962-8759401YA
LM185H-1.2-MLS	
LM185BYH2.5-SMD	5962-8759406XA
LM185H-2.5/883	
LM185H-2.5-SMD	5962-8759402XA
LM185BYH2.5-MLS	
LM185BE/883	
LM185BH/883	
LM185BYH/883	
LM185BYH-SMD	5962-9091401MXA

TABLE II - Die Sales

Datecode 0044

LM185-1.2 MW8
LM185-2.5 MW8