



Integrated Device Technology, Inc.
6024 Silver Creek Valley Road, San Jose, CA - 95138

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **TB1503-01** DATE: **July 22, 2015**
 Product Affected: **TSSOP-20, TSSOP-24, TSSOP-28,**
 TSSOP-48, TSSOP-56, TVSOP-48
 SOIC-28, SSOP-20, SSOP-28,
 (Refer to Attachment II for affected part# shipped in Reel)
 Date Effective: **November 2, 2015 Earliest Date - Refer to**
 specific date by package type

MEANS OF DISTINGUISHING CHANGED DEVICES:
 Product Mark
 Back Mark
 Date Code
 Other Refer to PCN effective date by package type in page 2.

Contact: IDT PCN DESK Attachment: Yes No
 E-mail: pcndesk@idt.com Samples: N/A

DESCRIPTION AND PURPOSE OF CHANGE:

- Die Technology
 - Wafer Fabrication Process
 - Assembly Process
 - Equipment
 - Material
 - Testing
 - Manufacturing Site
 - Data Sheet
 - Other - Packaging
- This notification is to advise our customers that IDT has planned to standardize the carrier tape used to one type on selective package types.
- Attachment I - Additional information on the changes.
Attachment II - Affected part list

RELIABILITY/QUALIFICATION SUMMARY:

N/A

CUSTOMER ACKNOWLEDGMENT OF RECEIPT:

IDT records indicate that you require written notification of this change. Please use the acknowledgement below or E-Mail to grant approval or request additional information. If IDT does not receive acknowledgement within 30 days of this notice it will be assumed that this change is acceptable.
 IDT reserves the right to ship either version manufactured after the process change effective date until the inventory on the earlier version has been depleted.

Customer: _____ **Approval for shipments prior to effective date.**
 Name/Date: _____ E-Mail Address: _____
 Title: _____ Phone# /Fax# : _____

CUSTOMER COMMENTS: _____

IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: _____ DATE: _____



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ATTACHMENT I - PCN #: TB1503-01

PCN Type: Packaging

Data Sheet Change: None

Detail of Change: This notification is to advise our customers that IDT has planned to standardize the carrier tape on the selective package types to only one type as detailed below.

Refer to the below table for PCN effective date by Package Type.

Industrial Package Type	IDT Package Nomenclature	PCN Effective Date
TSSOP-20	PGG20	2-Nov-15
TSSOP-24	PG24, PGG24	2-Nov-15
TSSOP-48	PA48, PAG48	2-Nov-15
SOIC-28	PSG28	2-Nov-15
TSSOP-28	PGG28	1-Feb-16
TSSOP-56	PA56, PAG56	1-Feb-16
SSOP-20	PYG20	1-Feb-16
SSOP-28	PYG28	1-Feb-16
TVSOP-48	PF48, PFG48	1-Feb-16



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I. PCN Effective Date on 2-Nov-15

Package Type: TSSOP-20 (IDT package nomenclature: PGG20)

Description	From	To
IDT Carrier Tape Part#	P8-464-000	P8-291-P20
IDT Carrier Tape Drawing#	MSC-7521	MSC-7519
Supplier Carrier Tape Part#	PGG20-20B3-360C-SD	eCA1760-PS-BLK-350
Supplier	PCT	E-PAK
Pocket Width, Ao (mm)	7.15 ± 0.05	7.00 ± 0.10
Pocket Length, Bo (mm)	6.90 ± 0.05	7.00 ± 0.10
Pocket Depth, Ki (mm)	1.25 ± 0.05	1.30 ± 0.10
Pocket Pitch, P1 (mm)	12.0 ± 0.1	8.0 ± 0.1
Total Pocket Depth, Ko (mm)	1.55 ± 0.05	1.60 ± 0.10
Carrier Tape Width, W (mm)	16.0 +0.2/-0.1	16.0 +0.2/-0.1
Carrier Tape Thickness, T (mm)	0.30 ± 0.05	0.30 ± 0.05



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Package Type: TSSOP-24 (IDT package nomenclature: PG24, PGG24)

Description	From	To
IDT Carrier Tape Part#	P8-329-P24	P8-169-P24
IDT Carrier Tape Drawing#	MSC-5914	MSC-3388
Supplier Carrier Tape Part#	TSSOP24L-20B3-360C-SD	TSS30P12GP-20B3-360-SD
Supplier	PCT	PCT
Pocket Width, Ao (mm)	6.85 ± 0.10	7.00 ± 0.10
Pocket Length, Bo (mm)	8.20 ± 0.10	8.20 ± 0.10
Pocket Depth, Ki (mm)	1.40 ± 0.10	1.30 ± 0.10
Pocket Pitch, P1 (mm)	8.00 ± 0.10	12.00 ± 0.10
Total Pocket Depth, Ko (mm)	1.70 ± 0.10	1.55 ± 0.10
Carrier Tape Width, W (mm)	16.0 +0.2/-0.1	16.0 +0.2/-0.1
Carrier Tape Thickness, T (mm)	0.30 ± 0.05	0.30 ± 0.05



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Package Type: TSSOP-48 (IDT package nomenclature: PA48, PAG48)

Description	From	To
IDT Carrier Tape Part#	P8-260-P48	P8-324-P48
IDT Carrier Tape Drawing#	MSC-7388	MSC-7539
Supplier Carrier Tape Part#	TSS48P16GP-22B3-360C-SD	eCA1765-PS-BLK-350
Supplier	PCT	E-PAK
Pocket Width, Ao (mm)	8.45 ± 0.13	8.85 ± 0.10
Pocket Length, Bo (mm)	13.00 ± 0.13	12.90 ± 0.10
Pocket Depth, Ki (mm)	1.20 ± 0.10	1.30 ± 0.10
Pocket Pitch, P1 (mm)	16.00 ± 0.10	12.00 ± 0.10
Total Pocket Depth, Ko (mm)	1.60 ± 0.10	1.50 ± 0.10
Carrier Tape Width, W (mm)	24.0 +0.2/-0.1	24.0 +0.2/-0.1
Carrier Tape Thickness, T (mm)	0.30 ± 0.05	0.30 ± 0.05



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Package Type: SOIC-28 (IDT package nomenclature: PSG28)

Description	From	To
IDT Carrier Tape Part#	P8-187-S28	P8-370-P28
IDT Carrier Tape Drawing#	MSC-3405	MSC-5938
Supplier Carrier Tape Part#	SO28NP-22B3-75C-SD	SO28W32-22B3-62C-SD
Supplier	PCT	PCT
Pocket Width, Ao (mm)	10.80 ± 0.10	10.90 ± 0.10
Pocket Length, Bo (mm)	18.55 ± 0.10	18.55 ± 0.10
Pocket Depth, Ki (mm)	2.60 ± 0.10	2.70 ± 0.10
Pocket Pitch, P1 (mm)	12.00 ± 0.10	16.00 ± 0.10
Total Pocket Depth, Ko (mm)	3.00 ± 0.10	3.10 ± 0.10
Carrier Tape Width, W (mm)	24.0 ± 0.3	32.0 ± 0.3
Carrier Tape Thickness, T (mm)	0.30 ± 0.05	0.30 ± 0.05



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PRODUCT/PROCESS CHANGE NOTICE (PCN)

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II. PCN Effective Date on 1-Feb-16

Package Type: TSSOP-28 (IDT package nomenclature: PGG28) and

Package Type: TVSOP-48 (IDT package nomenclature: PF48, PFG48)

Description	From	To
IDT Carrier Tape Part#	P8-145-PF8	P8-330-P48
IDT Carrier Tape Drawing#	MSC-3196	MSC-5915
Supplier Carrier Tape Part#	TSS28/38GP-22B3-120-SD	TSSOP48LGP-22B7-120C-SD
Supplier	PCT	PCT
Pocket Width, Ao (mm)	6.90 ± 0.13	7.10 ± 0.10
Pocket Length, Bo (mm)	10.10 ± 0.13	10.10 ± 0.10
Pocket Depth, Ki (mm)	1.30 ± 0.10	1.30 ± 0.10
Pocket Pitch, P1 (mm)	12.00 ± 0.10	12.00 ± 0.10
Total Pocket Depth, Ko (mm)	1.50 ± 0.10	1.50 ± 0.10
Carrier Tape Width, W (mm)	16.00 ± 0.30	24.0 +0.2/-0.1
Carrier Tape Thickness, T (mm)	0.30 ± 0.05	0.30 ± 0.05



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Package Type: TSSOP-56 (IDT package nomenclature: PA56, PAG56)

Description	From	To
IDT Carrier Tape Part#	P8-261-P56	P8-314-P56
IDT Carrier Tape Drawing#	MSC-7398	MSC-7543
Supplier Carrier Tape Part#	PA56SGP-22B3-360C-SD	eCA1764-PS-BLK-350
Supplier	PCT	E-PAK
Pocket Width, Ao (mm)	8.45 ± 0.13	8.85 ± 0.10
Pocket Length, Bo (mm)	14.50 ± 0.13	14.60 ± 0.10
Pocket Depth, Ki (mm)	1.20 ± 0.13	1.30 ± 0.10
Pocket Pitch, P1 (mm)	16.00 ± 0.10	12.00 ± 0.10
Total Pocket Depth, Ko (mm)	1.60 ± 0.13	1.50 ± 0.10
Carrier Tape Width, W (mm)	24.0 ± 0.3	24.0 +0.2/-0.1
Carrier Tape Thickness, T (mm)	0.30 ± 0.05	0.30 ± 0.05



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Package Type: SSOP-20 (IDT package nomenclature: PYG20)

Description	From	To
IDT Carrier Tape Part#	P8-259-P20	P8-320-P20
IDT Carrier Tape Drawing#	MSC-7395	MSC-5909
Supplier Carrier Tape Part#	SSOP20SGP-22B3-360C-SD	SSOP20GP-22B3-80C-SD
Supplier	PCT	PCT
Pocket Width, Ao (mm)	8.20 ± 0.10	8.60 ± 0.10
Pocket Length, Bo (mm)	7.50 ± 0.10	7.60 ± 0.10
Pocket Depth, Ki (mm)	2.10 ± 0.10	2.00 ± 0.10
Pocket Pitch, P1 (mm)	12.00 ± 0.10	12.00 ± 0.10
Total Pocket Depth, Ko (mm)	2.50 ± 0.10	2.30 ± 0.10
Carrier Tape Width, W (mm)	16.0 ± 0.3	16.0 ± 0.3
Carrier Tape Thickness, T (mm)	0.30 ± 0.05	0.30 ± 0.05



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Package Type: SSOP-28 (IDT package nomenclature: PYG28)

Description	From	To
IDT Carrier Tape Part#	P8-384-P28	P8-321-P28
IDT Carrier Tape Drawing#	MSC-7356	MSC-5910
Supplier Carrier Tape Part#	EIAJ14GP-22B3-75C-SD	SSOP28W24PGP-22B3-180C-SD
Supplier	PCT	PCT
Pocket Width, Ao (mm)	8.40 ± 0.10	8.90 ± 0.10
Pocket Length, Bo (mm)	10.70 ± 0.10	10.60 ± 0.10
Pocket Depth, Ki (mm)	2.10 ± 0.10	2.00 ± 0.10
Pocket Pitch, P1 (mm)	12.00 ± 0.10	12.00 ± 0.10
Total Pocket Depth, Ko (mm)	2.40 ± 0.10	2.30 ± 0.10
Carrier Tape Width, W (mm)	16.0 ± 0.3	24.0 ± 0.3
Carrier Tape Thickness, T (mm)	0.30 ± 0.05	0.30 ± 0.05



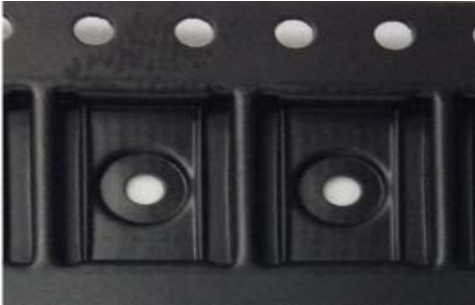
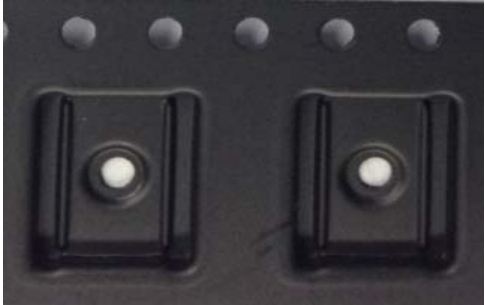

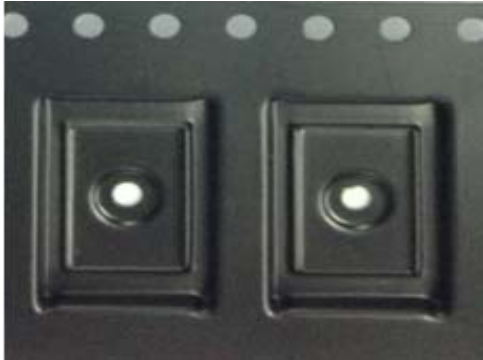


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Illustration of Carrier Tape Pocket Design Change

Package	From	To
TSSOP-20	Carrier Tape Part# P8-464-000 	Carrier Tape Part# P8-291-P20 
TSSOP-24	Carrier Tape Part# P8-329-P24 	Carrier Tape Part# P8-169-P24 
TSSOP-48	Carrier Tape Part# P8-260-P48 	Carrier Tape Part# P8-324-P48 



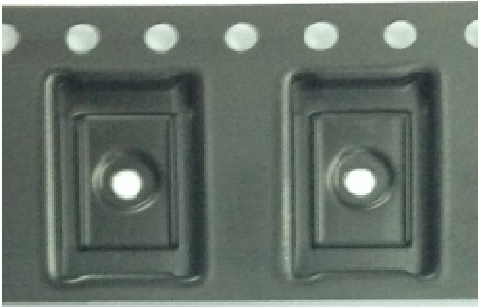
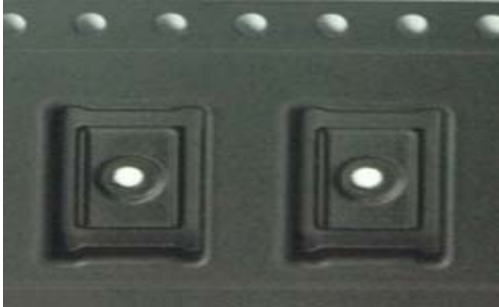




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Illustration of Carrier Tape Pocket Design Change

Package	From	To
SOIC-28	Carrier Tape Part# P8-187-S28 	Carrier Tape Part# P8-370-P28 
TSSOP-28 and TVSOP-48	Carrier Tape Part# P8-145-PF8 	Carrier Tape Part# P8-330-P48 
TSSOP-56	Carrier Tape Part# P8-261-P56 	Carrier Tape Part# P8-314-P56 


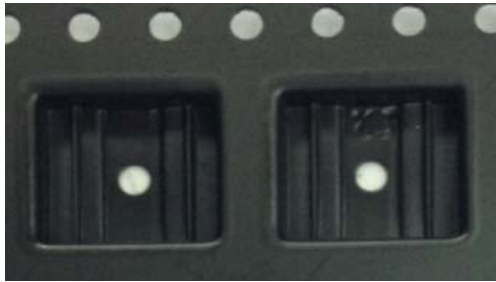

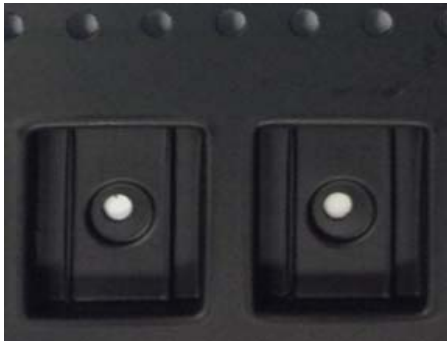


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ATTACHMENT I - PCN #: TB1503-01

Illustration of Carrier Tape Pocket Design Change

Package	From	To
SSOP-20	Carrier Tape Part# P8-259-P20 	Carrier Tape Part# P8-320-P20 
SSOP-28	Carrier Tape Part# P8-384-P28 	Carrier Tape Part# P8-321-P28 



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ATTACHMENT II - PCN #: TB1503-01

Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
74FCT3807DPYGI8	74LVCH16374APAG8	74FCT244ATPGG8	SSTVF16857AGLFT/M
74FCT807CTPYGI8	74LVCH16543APAG8	74FCT244ATPYG8	QS3VH16800PAG8
74LVC162244APAG8	74LVCHR162245APAG8	74FCT244CTPGG8	QS3VH16245PAG8
74LVC162245APAG8	843001AG-21LFT	74FCT244CTPYG8	QS3VH16244PAG8
74LVC16244APAG8	74FCT163245CPFG8	74FCT245ATPGG8	9DB306BLLFT
74LVC16245APAG8	74FCT163827APAG8	74FCT245ATPYG8	LDS6107PYGI8
74LVC16373APAG8	74FCT163827CPAG8	74FCT245CTPGG8	QS32245PAG8
74LVC16374APAG8	74FCT164245TPAG8	74FCT3807DPGGI8	QS3244PAG8
74LVC16827APAG8	74FCT16543ATPAG8	843001AG-21LFT-HC	QS3VH16210PAG8
74FCT807CTPYG8	74FCT16543CTPAG8	8737AGI-11LFT	QS3VH16211PAG8
74FCT807BTPYGI8	74FCT16952ATPAG8	93V855AGLFT	QS3VH16212PAG8
74FCT807BTPYG8	74FCT16952CTPAG8	93V857BG-025T	QS3VH16233PAG8
74FCT3807EPGGI8	74FCT16952ETPAG8	95V857AGILFT	VP386GLFT
74FCT3807EPYG8	74FCT16374ETPAG8	95V857AGLFT	843001AG-21LFT-HT
74FCT3807EPYGI8	74FCT16374CTPF8	95V857AGLFT/M	843004AGLFT
74FCT3807PYG8	74FCT16374CTPAG8	95VLP857AGT	8433625AGLFT
74FCT3807PYGI8	74FCT163373APAG8	9DB202CFLFT	844003AGLFT
74FCT3807SPGGI8	74FCT163373CPAG8	9DB202CGLFT	844003EGI-01LFT
74FCT3807SPYGI8	74FCT163374APAG8	91857AGLFT	844003EGI-01T
74FCT3811PYGI8	74FCT163374CPAG8	8V43042PGG8	844004BGI-01LFT
74LVCH162244APAG8	74FCT16373ATPAG8	8V33004-031PGGI8	850S1601BGILFT
74LVCH162245APAG8	74FCT16373CTPAG8	874002AGLFT	85104AGILFT
83908AG-02LFT	74FCT16374ATPAG8	874005AG-04LFT	843004AGILFT
83908AGI-02LFT	74FCT16374CTPA8	874005AGLFT	843004AGI-04LFT
841S04CGILFT	74FCT20807PYGI8	8741004AGLFT	843004AGI-01LFT
841S104BGI-02LFT	74FCT240ATPYG8	8T33FS314-09PGGI8	843001AGI-22LFT
841S104EGILFT	74FCT3244PGG8	8T33FS314PGGI8	843001BGI-23LFT
841S104EGILFT-HP	74FCT3244PYG8	8T33FS314PYGI8	843003AGI-01LFT
842S104CGLFT	74FCT3245APGG8	8V33004-001PGGI8	843003AGI-01LFT-HT
842S104EGLFT	74FCT3245PGG8	9DB206CLLFT	843003AGLFT
831742AGILFT	74FCT373ATPYG8	9DB306BLILFT	843004AG-01LFT
813001AGILFT	74FCT373CTPYG8	QS3VH16861PAG8	843004AG-125LFT
74LVCR162245APAG8	74FCT3807APYG8	QS3VH16862PAG8	843004AG-ALPLFT
74LVCH162373APAG8	74FCT3807APYGI8	QS3VH2245PAG8	85108AGILFT
74LVCH162374APAG8	74FCT3244APYG8	QS3VH244PAG8	8525BGLFT
74LVCH16244APAG8	74FCT3244APGG8	QS3VH245PAG8	854S006AGILFT
74LVCH16245APA8	74FCT245CTPYG8	SSTVA16857AGLFT	854S058AGILFT
74LVCH16245APAG8	74FCT240CTPYG8	SSTVF16857AGLFT	859S0424BGILFT



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Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
859S0424BGILFT-HT	6V61025PAG8	49FCT3805DPYGI8	74CBTLV16212PAG8
87004AGILFT	6V61031PGG8	49FCT3805EPYGI8	74ALVCH162245PAG8
87004AGLFT	7281L20PA8	49FCT3805PYG8	74ALVCH162373PAG8
871004AGI-04LFT	7282L12PA8	49FCT3805PYGI8	74ALVCH16244PAG8
87339AGI-11LFT	7282L12PAG8	5T90533PGGI8	74ALVCH16245PA8
8546AG-01LFT	7282L15PA8	5T905PGGI8	74ALVCH16245PAG8
8545BGLFT	7282L15PAGI8	5V41186PGGI8	74ALVCHR162245PAG8
8545BGILFT	7282L15PAI8	5V41201PGG8	74CBTLV16210PAG8
8535AG-31LFT	7282L20PA8	5V41201PGGI8	74CBTLV16211PAG8
8535AG-31LFT-ACT	7282L20PAG8	5V41236PGG8	74FCT162373CTPAG8
8535AGI-31LFT	7281L15PAI8	5V41236PGGI8	74FCT162373ETPAG8
8536AG-01LFT	7281L15PAGI8	5V41242PGG8	74FCT162827ATPAG8
8536AG-02LFT	7281L15PA8	5V49289BPAGI8	74FCT162827CTPAG8
853S058AGILFT	71256SA35SOG18	5V49EE901-001PGGI8	74FCT163244APAG8
854058AGLFT	7280L12PA8	5V41186PGG8	74FCT163244APFG8
8545AG-01LFT	7280L12PAG8	5V41180PGG8	74FCT163244CPAG8
8737AG-11LFT	7280L15PA8	5V41067APGGI8	74FCT163244CPFG8
74FCT163245CPF8	7280L15PAI8	5T9070PAGI8	74FCT163245APAG8
5V49EE901-064PGGI8	7280L20PA8	5T907PAGI8	74FCT163245APFG8
6V41329PGGI8	7281L12PA8	5T915PAGI8	74FCT162823CTPAG8
6V49061APAG8	7281L12PAG8	5T93GL02PGGI8	74FCT162823ATPAG8
6V49122PAG8	7283L12PA8	5V19EE901PGGI8	74FCT16245ETPAG8
6V49152APAGI8	49FCT20805PYGI8	5V41066PGG8	74FCT162374ATPAG8
6V49198APGG8	49FCT805CTPYG8	5V41066PGGI8	74FCT162374CTPAG8
6V49205APAG8	49FCT805PYG8	5V41067APGG8	74FCT162374ETPAG8
6V49205APAGI8	49FCT805PYGI8	5V49EE901-021PGGI8	74FCT16244ATPAG8
6V49205BPAGI8	49FCT806APYG8	7283L12PAG8	74FCT16244CTPAG8
6V41329PGG8	49FCT806PYG8	74ALVCH162244PAG8	74FCT16245ATPAG8
6V41216PGGI8	5P90011PGGI8	74CBTLV3244PGG8	74FCT16245CTPAG8
6V41216PGG8	5PB1110PGGI8	74CBTLV3245PGG8	74FCT16245CTPFG8
5V49EE903-003PGGI8	5T9050PGGI8	74FCT162244ATPAG8	74FCT163245CPAG8
5V49EE903PGGI8	49FCT805BTPYG8	74FCT162244CTPAG8	7283L15PA8
5V9886T-002PGGI8	49FCT805APYGI8	74FCT162244ETPAG8	7285L15PA8
6V40132PGG8	49FCT805APYG8	74FCT162245ATPAG8	7285L15PAGI8
6V40143PGG8	49FCT3805APYG8	74FCT162245CTPAG8	7285L15PAI8
6V40159PGG8	49FCT3805APYGI8	74FCT162373ATPAG8	7285L20PA8
6V40171APAG8	49FCT3805BPYG8	74CBTLV16292PAG8	72V81L15PA8
6V41161PGG8	49FCT3805BPYGI8	74CBTLV16245PAG8	72V81L15PAG8



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Affected Part Numbers

Part Number	Part Number	Part Number	Part Number
72V81L20PA8	7284L12PAG8	74ALVC162244PAG8	72V82L20PAGI8
72V81L20PAI8	7284L15PA8	74ALVC162245PAG8	72V82L20PAI8
7285L12PAG8	7284L15PAGI8	74ALVC162334PAG8	72V83L15PA8
7285L12PA8	7284L15PAI8	74ALVC16244APAG8	72V83L15PAG8
7284L20PA8	72V82L15PA8	74ALVC16245PAG8	72V83L20PA8
7283L15PAGI8	72V82L15PAG8	72V85L15PA8	72V83L20PAGI8
7283L15PAI8	72V85L15PAG8	72V84L20PA8	72V84L15PA8
7283L20PA8	72V85L20PA8	72V84L15PAG8	74ALVC164245PAG8
7284L12PA8	74ALVC162244PA8	72V82L20PA8	