



Texas Instruments Incorporated

Qualification of Sumitomo EME5050RL Mold Compound

SAMPLE REQUEST / FINAL NOTIFICATION LETTER

PCN: 20000816001

December 4, 2002

Dear Customer:

The following notes apply to this correspondence:

This is a final notification letter to announce the qualification and implementation of Sumitomo EME5050RL mold compound.

The change details are discussed in the following pages. This change does not impact fit, form, function, quality or reliability of affected product.

This notification provides the following:

- Description of change
- Benefits and risk analysis
- Qualification test results
- Implementation schedule

For questions regarding this notice, contact George Dell or your local Field Sales Representative.

Sincerely,

George Dell

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Texas Instruments Incorporated

Qualification of Sumitomo EME5050RL Mold Compound SAMPLE REQUEST / FINAL NOTIFICATION LETTER PCN: 20000816001

December 4, 2002

I. INTRODUCTION

Texas Instruments Incorporated (TI) has qualified Sumitomo EME5050RL mold compound to be used in the manufacture of SOIC, SOP and SSOP packaged devices assembled in TI facilities.

Some customers were notified under this PCN number on December 11, 2000 that TI planned to qualify this mold compound for surface mount and some dual-in-line (DIP) packaged devices. At this time TI plans to move forward with the conversion of indicated surface mount packaged devices.

II. DESCRIPTION OF CHANGE

TI will convert the mold compound to be used in the manufacture of the devices using the following surface mount packages that are assembled in the TI Taiwan, TI-Malaysia and TI-Mexico. Affected devices will be converted from Hysol 9AS to Sumitomo EME5050RL mold compound.

Package Pins	TI Package Code	Package Type
8/14/16	D	SOIC
14/16/20/24/28/30/38	DB	SSOP
16/20/2	DBQ	SSOP
16/20/24/28	DW	SOIC
14/16/20/24	NS	SOP
8	PS	SOP

In addition the moisture sensitivity of these products will be reclassified from Level 1 @ 220Deg C (J-STD-020A) to Level 2 at 250 Deg C (J-STD-020B) to meet the temperature requirements of Pb-free board assembly processes. There may be some specific devices in these packages that may be classified at a different moisture sensitivity level. Please reference the shipping label for the appropriate moisture sensitivity level of each affected device.

Products now classified, as Level 1 per J-STD-020A will be shipped in moisture barrier bags once the mold compound change is implemented.

III. BENEFITS AND RISKS ANALYSIS

The Sumitomo EME5050RL mold compound provides improved moisture performance. When used in conjunction with TI's Ni/Pd/Au (Pb-free) lead finish it allows the devices using this combination to be classified for use at the higher peak re-flow temperatures as specified by J-STD-020B for Pb-free solder board assembly processes.

This mold compound conversion is low risk as the EME5050RL has been qualified and in volume production for Standard Logic and Linear devices for several years.

IV. IMPLEMENTATION SCHEDULE

Unless otherwise agreed to, the product affected by this notice may be included in shipments after **March 4, 2003**. Please reference the shipping label for the moisture sensitivity classification of each device type.

V. PRODUCT RELIABILITY QUALIFICATION

Table 2 summarizes the original qualification test results of various devices manufactured in the affected assembly sites using EME5050RL mold compound. Preconditioning and moisture sensitivity evaluations were done per **Level 1 @ 235 Deg C**. The construction details for the devices used in this qualification testing are included in **Tables 1**

Table 5 summarizes the qualification test results of various devices manufactured in the affected assembly sites using EME5050RL mold compound where the preconditioning and moisture sensitivity testing was done per **Level 2 @ 250 Deg C**. The construction details for the devices used in this qualification testing are included in **Tables 3 and 4**.

These data will be used to qualify the affected devices listed in the Attachment

Table 1 Qualification Device Construction Detail

	DEVICE 1	DEVICE 2	DEVICE 3	DEVICE 4	DEVICE 5	DEVICE 6
Device:	SN75ALS174ADW	TL598CD	SN74CBT3384ADBQ	SN74ALS38245ADB	SN74AC11245NS	SN28956D
Die Size (mils):	115 X 150	80 X 140	61 X 43	60 X 77	79 X 124	79 X 133
Wafer Fab Site:	Japan (HIJI)	Freising (FFAB)	Freising (FFAB)	Sherman (SFAB)	Freising (FFAB)	Dallas (DFAB)
Technology:	Bipolar	Bipolar	CMOS	Bipolar	CMOS	CMOS
Fab Process:	OI Bipolar	Std Linear	EPIC-1ZS	IMPACT	EPIC-1	4/3 CMOS
Metal 1:	TiW/AICu2	TiW/AICu2	TiW/AICu2	TiW/AICu2	TiW/AICu2	TiW/AISiCu.5
Metal 2:	TiW/AICu2	TiW/AICu2	TiW/AICu2	TiW/AICu2	TiW/AICu2	None
Passivation:	10KACN	10KACN	10KACN	10KACN	10KACN	11.5KACN
Assembly Site:	TI Taiwan	TI Mexico	TI Malaysia	TI Malaysia	TI Malaysia	TI Mexico
Mold Compound:	EME5050RL	EME-5050RL	EME5050RL	EME5050RL	EME5050RL	EME5050RL
Mount Compound:	HIT EN-4088Z	QMI 505MT	HIT EN-4088Z	QMI 505MT	QMI 505MT	QMI 505MT
Pin Count:	20	16	24	38	24	16
Package:	DW	D	DBQ	DB	NS	D
Lead Composition:	Cu	Cu	Cu	Cu	Cu	Cu
Lead Finish:	Palladium Plate	Palladium Plate	Palladium Plate	Palladium Plate	Palladium Plate	Palladium Plate

Table 2 - Qualification Test Results

		DEVICE 1	DEVICE 2	DEVICE 3	DEVICE 4	DEVICE 5	DEVICE 6
		Sample **/ Fail	Sample **/ Fail	Sample **/ Fail	Sample **/ Fail	Sample **/ Fail	Sample **/ Fail
Bias Life Test *	150 Deg C/300 hrs	119/0	120/0	120/0	120/0	120/0	-
HAST *	130 DegC/100 hrs	120/0	120/0	120/0	78/0	120/0	-
Autoclave *	11 Deg C/96 hrs	231/0	231/0	231/0	78/0	231/0	231/0
Thermal Shock *	-65/150 Deg C/1000cyc	231/0	231/0	231/0	78/0	231/0	231/0
Storage Life *	/170 Deg C 420hrs	135/0	135/0	135/0	45/0	135/0	-
Solder Heat	10 secs	66/0	66/0	66/0	-	-	-
Lead pull		9/0	30/0	30/0	9/0	9/0	228/0
Flammability (UL)		15/0	15/0	15/0	15/0	15/0	-
Flammability (IEC)		15/0	15/0	15/0	15/0	15/0	-
X-RAY		15/0	15/0	15/0	15/0	15/0	-
Physical Dim		15/0	15/0	15/0	15/0	15/0	-
Resistance Solvent		36/0	36/0	36/0	-	-	-
Moisture Sensitivity. L1	235C						
C-SAM		12/0	36/0	36/0	12***/0	12***/0	-
Electrical Test		12/0	36/0	36/0	12***/0	12***/0	-
X-Section		12/0	36/0	36/0	12***/0	12***/0	-

Notes:

- * Sample preconditioning 168 hours of 85C/85%RH soak followed by three passes of 235C Convection re-flow per (Level 1) JEDEC A113.
- ** Sample size was made up of three (3) assembly lots unless where otherwise noted.
- *** Sample was made up of one assembly lot.

Table 3 Qualification Device Construction Details

	DEVICE 1	DEVICE 2	DEVICE 3	DEVICE 4	DEVICE 5
Qualification Device:	TL598CD	SN74HC4060D	SN75LP1185DB	SN74LVTH244ADB	SN74ALS38245ADB
Die Size :	80 X 140 mils	71 X 91 mils	78 X 118 mils	51 X 71 mils	30 X 77 mils
WF Site:	SHE	SHE	SHE	TID	SHE
Technology:	Bipolar	CMOS	Bipolar	BiCMOS	Bipolar
Fab Process:	50B99	50C99.1	50B99	50B30.2	50BP70
Assembly Site:	TI-Mexico	TI-Mexico	TI-Malaysia	TI-Malaysia	TI-Malaysia
Package:	D	D	DB	DB	DB
Pin Count:	16	16	20	20	38
Mold Compound:	EME5050RL	EME5050RL	EME5050RL	EME5050RL	EME5050RL
Mount Compound:	QMI 505MT	QMI 505MT	EN 4088Z	EN 4088Z	EN 4088Z
Lead Finish	NiPdAu	NiPdAu	NiPdAu	NiPdAu	NiPdAu

Table 4 Qualification Device Construction Details

	DEVICE 6	DEVICE 7	DEVICE 8	DEVICE 9
Qualification Device:	SN74CBTLV3384DBQ	SN75ALS172ADW	SN74AC11245NS	SN74ABT8245DW
Die Size :	58 X 79 mils	115 X 150 mils	79 X 124 mils	139 X 167 mils
WF Site:	TID	HIJ	TID	SHE
Technology:	CMOS	Bipolar	CMOS	BiCMOS
Fab Process:	50C24.1	50BP70	50C58.1	50B40.2
Assembly Site:	TI-Malaysia	TI-Taiwan	TI-Malaysia	TI-Taiwan
Package:	DBQ	DW	NS	DW
Pin Count:	24	20	24	24
Mold Compound:	EME5050RL	EME5050RL	EME5050RL	EME5050RL
Mount Compound:	EN 4088Z	EN 4088Z	EN 4088Z	EN 4088Z
Lead Finish	NiPdAu	NiPdAu	NiPdAu	NiPdAu

Table 5 - Qualification Test Results

Test Type	Conditions/Duration	Device 1	Device 2	Device 3	Device 4	Device 5	Device 6	Device 7	Device 8	Device 9
		Sample **/Fail	Sample **/Fail	Sample **/Fail	Sample **/Fail	Sample **/Fail	Sample **/Fail	Sample **/Fail	Sample **/Fail	Sample **/Fail
*Biased HAST	130C/85%, 100 hrs	120/0	120/0	120/0	120/0	120/0	120/0	120/0	120/1(a)	120/0
*Autoclave	121C, 96 hrs	78/0	231/0	78/0	231/0	231/0	231/0	231/0	231/0	231/0
*Thermal Shock	-65C/+150C, 1000 cyc	78/0	78/0	78/0	78/0	78/0	78/0	78/0	78/0	78/0
Moisture Sensitivity	L2 – 250 Deg C									
	40x Visual Inspection	12/0	12/0	12/0	12/0	12/0	12/0	12/0	12/0	12/0
	Die Delamination	12/0	12/0	12/0	12/0	12/0	12/0	12/0	12/0	12/0
	Cross Section	12/0	12/0	12/0	12/0	12/0	12/0	12/0	12/0	12/0

Notes::

- * Sample preconditioning per (Level 2) JEDEC A113
 - a. Storage at 125°C for 24 hours, then
 - b. 85°C/60 % relative humidity for 168 hours with no bias, then
 - c. 3 cycles of a 255° C IR solder re-flow simulation with a five (5) minute room temp delay. Then samples were cleaned-up with an isopropyl alcohol rinse and a de-ionized water rinse followed-up by a one hour 25°C drying period
- ** Sample size was made up of three (3) assembly lots unless where otherwise noted.
- (a) Biased HAST, 100 hours. One failure due to lifted ball bonds. The failure was attributed to an assembly process deviation and not related to the moisture level reclassification.

VI. AFFECTED PRODUCT

(See attachment for a list of affected devices)

VII. SAMPLES

Sample devices are available on request. **Requests should be made within 30 days of the date of this correspondence.** Availability of some package types may be limited. Contact your local Field Sales Office for details.

VIII. PRODUCT IDENTIFICATION

There will be no change in product marking as a result of this change. The shipping container label will reflect the appropriate moisture sensitivity level of each device.

For questions regarding this notice, contact George Dell or your local Field Sales Representative.

Sincerely,

George Dell

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Texas Instruments Incorporated

Qualification of Sumitomo EME5050RL Mold Compound
PCN: 20000816001
ATTACHMENT

November 27, 2002

This notice does not apply to product on end of life status. Should product affected be on a previously issued lifetime buy/withdrawal notice, this notification does not extend the life of that product or change the life-time buy offering/discontinuance plan.

PARTS AFFECTED BY THIS NOTICE INCLUDE (Page 1 of 12)

BQ2002CSN	CDC2351DBR	CDCFR83DBQ	PSN104685DWR	SN104465DR
BQ2002CSN-SI	CDC2351DW	CDCFR83DBQR	PSN65LV1212DB	SN104478DWR
BQ2002CSN-SITR	CDC2351DWR	CDCR81DBQR	PTPIC2605D	SN104479DWR
BQ2002CSNTR	CDC2536DB	CDCR83DBQ	PTPIC2810D	SN104498DR
BQ2002DSN	CDC2536DBR	CDCR83DBQR	PTPIC2810DR	SN104533DR
BQ2002DSNTR	CDC303NS	CDCVF2505D	PTPIC8101DW	SN104577DWR
BQ2002ESN	CDC303NSR	CDCVF2505DR	SN0108025DR	SN104584DWR
BQ2002ESN-SI	CDC319DBR	CDCVF25081D	SN0205025DR	SN104620DR
BQ2002ESN-SITR	CDC328AD	CDCVF25081DR	SN103644DR	SN104621DR
BQ2002ESNTR	CDC328ADBR	ICL7652D	SN103752DR	SN104627D
BQ2002FSN	CDC328ADR	L293DDWP	SN103766DR	SN104627DR
BQ2002FSNTR	CDC328ANS	L293DDWPTR	SN103788DR	SN104628D
BQ2002GSN	CDC328ANSR	MSP430F1101AIDW	SN103802NS	SN104628DR
BQ2002GSNTR	CDC329AD	MSP430F1101AIDWR	SN103802NSR	SN104637DR
BQ2002SN	CDC329ADR	MSP430F1101IDW	SN103844ADB	SN104645DBR
BQ2002SN-M01	CDC337DW	MSP430F1101IDWR	SN103844ADBR	SN104646DR
BQ2002SN-M01TR	CDC337DWR	MSP430F110IDW	SN103844DB	SN104648DBR
BQ2002SN-SAN	CDC337NS	MSP430F110IDWR	SN103844DBR	SN104649DR
BQ2002SN-SANTR	CDC339DB	MSP430F1111AIDWR	SN103845DB	SN104653DWR
BQ2002SNTR	CDC339DBR	MSP430F1121AIDW	SN103845Y-W	SN104671DBR
BQ2002TSN	CDC339DW	MSP430F1121AIDWR	SN103919D	SN104673DWR
BQ2002TSNTR	CDC339DWR	MSP430F1121IDW	SN103947DR	SN104685DW
BQ3285ESS	CDC339NS	MSP430F1121IDWR	SN103969D	SN104685DWR
BQ3285ESSTR	CDC339NSR	MSP430F112IDW	SN104023DR	SN104691DBR
BQ3285LDSS	CDC340DWR	MSP430F112IDWR	SN104031DR	SN104692D
BQ3285LDSSTR	CDC341DW	MSP430F1222IDW	SN104155DR	SN104692DR
BQ3285LFSS-A1	CDC341DWR	MSP430F1222IDWR	SN104200DB	SN104800PS
BQ3285LFSS-A1TR	CDC341NS	MSP430F122IDW	SN104200DBR	SN104800PSR
BQ4802LYDW	CDC341NSR	MSP430F122IDWR	SN104209NS	SN104801PS
BQ4802LYDWR	CDC351DB	MSP430F1232IDW	SN104209NSR	SN104801PSR
BQ4802YDW	CDC351DBR	MSP430F1232IDWR	SN104209NSRE	SN104804D
BQ4802YDWR	CDC351DW	MSP430F123IDW	SN104214DB	SN104806D
CDC203DWR	CDC351DWR	MSP430F123IDWR	SN104214DBR	SN104806DR
CDC204DW	CDC351NS	MSP430M201IDW	SN104217NS	SN104812DR
CDC204DWR	CDC351NSR	MSP430P112AIDW	SN104223NS	SN104813DR
CDC208DW	CDC391D	MSP430P112AY	SN104223NSR	SN104814DR
CDC208DWR	CDC391DR	MSP430P112IDW	SN104248NS	SN104815DB
CDC208NS	CDC536DB	MSP430U216IDW	SN104248NSR	SN104815DBR
CDC208NSR	CDC536DBR	PMS430F1232IDW	SN104367D	SN104815NS
CDC2351DB	CDC5801DBQ	PSN0203026DW	SN104457DWR	SN104815NSR

PARTS AFFECTED BY THIS NOTICE INCLUDE (Page 2 of 12)

SN104816NS	SN65ALS542NS	SN65LBC176AD	SN65LVDS105D	SN65LVDT122D
SN104816NSR	SN65ALS542NSR	SN65LBC176ADR	SN65LVDS105DR	SN65LVDT122DR
SN104817DR	SN65ALS543NS	SN65LBC176D	SN65LVDS122D	SN65LVDT2D
SN104819DR	SN65ALS543NSR	SN65LBC176DR	SN65LVDS122DR	SN65LVDT2DR
SN104906DR	SN65ALS544NS	SN65LBC179AD	SN65LVDS179D	SN65LVDT32BD
SN104918DBR	SN65ALS544NSR	SN65LBC179ADR	SN65LVDS179DR	SN65LVDT32BDR
SN104927DBR	SN65HVD05D	SN65LBC179D	SN65LVDS180D	SN65LVDT33D
SN104933DR	SN65HVD05DR	SN65LBC179DR	SN65LVDS180DR	SN65LVDT33DR
SN104935DR	SN65HVD06D	SN65LBC180AD	SN65LVDS1D	SN65LVDT3486BD
SN104938DR	SN65HVD06DR	SN65LBC180ADR	SN65LVDS1DR	SN65LVDT3486BDR
SN104946DR	SN65HVD07D	SN65LBC180D	SN65LVDS22D	SN65LVDT348D
SN104952D	SN65HVD07DR	SN65LBC180DR	SN65LVDS22DR	SN65LVDT348DR
SN104952DR	SN65HVD10D	SN65LBC182D	SN65LVDS2D	SN65LVDT34D
SN104956DBR	SN65HVD10DR	SN65LBC182DR	SN65LVDS2DR	SN65LVDT34DR
SN104967DR	SN65HVD11D	SN65LBC184D	SN65LVDS31D	SN65LVDT390D
SN104972DB	SN65HVD11DR	SN65LBC184DR	SN65LVDS31DR	SN65LVDT390DR
SN104977DBR	SN65HVD12D	SN65LV1021DB	SN65LVDS31NS	SN65LVDT9637BD
SN104992DBR	SN65HVD12DR	SN65LV1021DBR	SN65LVDS31NSR	SN65LVDT9637BDR
SN104997DR	SN65HVD230D	SN65LV1023DB	SN65LVDS32BD	SN65MLVD200D
SN105055D	SN65HVD230DR	SN65LV1023DBR	SN65LVDS32BDR	SN65MLVD200DR
SN105055DR	SN65HVD231D	SN65LV1212DB	SN65LVDS32D	SN65MLVD202D
SN105056D	SN65HVD231DR	SN65LV1212DBR	SN65LVDS32DR	SN65MLVD202DR
SN105056DR	SN65HVD232D	SN65LV1224DB	SN65LVDS32NS	SN65MLVD204D
SN105057DBR	SN65HVD232DR	SN65LV1224DBR	SN65LVDS32NSR	SN65MLVD204DR
SN105058DW	SN65LBC031D	SN65LVDM050D	SN65LVDS33D	SN65MLVD205D
SN105075D	SN65LBC031DR	SN65LVDM050DR	SN65LVDS33DR	SN65MLVD205DR
SN105075DR	SN65LBC170DB	SN65LVDM051D	SN65LVDS3486BD	SN75HVD05D
SN105085D	SN65LBC170DBR	SN65LVDM051DR	SN65LVDS3486BDR	SN75HVD05DR
SN105085DR	SN65LBC170DW	SN65LVDM176D	SN65LVDS3486D	SN75HVD06D
SN105086D	SN65LBC170DWR	SN65LVDM176DR	SN65LVDS3486DR	SN75HVD06DR
SN105086DR	SN65LBC171DB	SN65LVDM179D	SN65LVDS3487D	SN75HVD07D
SN105087D	SN65LBC171DBR	SN65LVDM179DR	SN65LVDS3487DR	SN75HVD07DR
SN105087DR	SN65LBC171DW	SN65LVDM180D	SN65LVDS348D	SN75HVD10D
SN105089D	SN65LBC171DWR	SN65LVDM180DR	SN65LVDS348DR	SN75HVD10DR
SN105089DR	SN65LBC172ADW	SN65LVDM22D	SN65LVDS34D	SN75HVD11D
SN105099DR	SN65LBC172ADWR	SN65LVDM22DR	SN65LVDS34DR	SN75HVD11DR
SN105105DR	SN65LBC172DW	SN65LVDM31D	SN65LVDS390D	SN75HVD12D
SN105112DR	SN65LBC173AD	SN65LVDM31DR	SN65LVDS390DR	SN75HVD12DR
SN28784D	SN65LBC173ADR	SN65LVDS047D	SN65LVDS391D	SN75LBC031D
SN28784DR	SN65LBC173D	SN65LVDS047DR	SN65LVDS391DR	SN75LBC031DR
SN28878DNS	SN65LBC173DR	SN65LVDS048AD	SN65LVDS9637BD	SN75LBC170DB
SN28878DNSR	SN65LBC174ADW	SN65LVDS048ADR	SN65LVDS9637BDR	SN75LBC170DBR
SN55LVDM050BD	SN65LBC174ADWR	SN65LVDS051D	SN65LVDS9637D	SN75LBC170DW
SN55LVDM050BDR	SN65LBC174DW	SN65LVDS051DR	SN65LVDS9637DR	SN75LBC170DWR
SN55LVDM051BD	SN65LBC174DWR	SN65LVDS100D	SN65LVDS9638D	SN75LBC171DB
SN55LVDM051BDR	SN65LBC175AD	SN65LVDS100DR	SN65LVDS9638DR	SN75LBC171DBR
SN65ALS540NSR	SN65LBC175ADR	SN65LVDS101D	SN65LVDT100D	SN75LBC171DW
SN65ALS541ANS	SN65LBC175D	SN65LVDS101DR	SN65LVDT100DR	SN75LBC171DWR
SN65ALS541ANSR	SN65LBC175DR	SN65LVDS104D	SN65LVDT101D	SN75LBC172ADW
SN65ALS541NSR	SN65LBC175DW	SN65LVDS104DR	SN65LVDT101DR	SN75LBC172ADWR

PARTS AFFECTED BY THIS NOTICE INCLUDE (Page 3 of 12)

SN75LBC172DW	SN75LVDS31NSR	THS3001CDR	THS4001IDR	THS4062CDR
SN75LBC172DWR	SN75LVDS32D	THS3001ID	THS4007CD	THS4062ID
SN75LBC173AD	SN75LVDS32DR	THS3001IDR	THS4007CDR	THS4062IDR
SN75LBC173ADR	SN75LVDS32NSR	THS3002CD	THS4007ID	THS4071CD
SN75LBC173D	SN75LVDS390D	THS3002CDR	THS4007IDR	THS4071CDR
SN75LBC173DR	SN75LVDS390DR	THS3002ID	THS4011CD	THS4071ID
SN75LBC174ADW	SN75LVDS391D	THS3002IDR	THS4011CDR	THS4071IDR
SN75LBC174ADWR	SN75LVDS391DR	THS3011CD	THS4011ID	THS4072CD
SN75LBC174DW	SN75LVDS9637D	THS3011CDR	THS4011IDR	THS4072CDR
SN75LBC174DWR	SN75LVDS9637DR	THS3011ID	THS4012CD	THS4072ID
SN75LBC175AD	SN75LVDS9638D	THS3011IDR	THS4012CDR	THS4072IDR
SN75LBC175ADR	SN75LVDS9638DR	THS3061D	THS4012ID	THS4081CD
SN75LBC175D	SN75LVDT390D	THS3061DR	THS4012IDR	THS4081CDR
SN75LBC175DR	SN75LVDT390DR	THS3071CD	THS4021CD	THS4081ID
SN75LBC176AD	SN77704DR	THS3071CDR	THS4021CDR	THS4081IDR
SN75LBC176ADR	SN77711DR	THS3071ID	THS4021ID	THS4082CD
SN75LBC176D	SR3437BBB2DB	THS3071IDR	THS4021IDR	THS4082CDR
SN75LBC176DR	SR3437BBB2DBR	THS3072CD	THS4022CD	THS4082ID
SN75LBC179AD	TCM1050D	THS3072CDR	THS4022CDR	THS4082IDR
SN75LBC179ADR	TCM1050DR	THS3072ID	THS4022ID	THS4101CD
SN75LBC179D	TCM1715ADWR10	THS3072IDR	THS4022IDR	THS4101CDR
SN75LBC179DR	TCM320AC54CDW	THS3101CD	THS4031CD	THS4101ID
SN75LBC180AD	TCM320AC54CDWR	THS3101CDR	THS4031CDR	THS4101IDR
SN75LBC180ADR	TCM9055DW	THS3101ID	THS4031ID	THS4120CD
SN75LBC180D	TCM9055DWR	THS3101IDR	THS4031IDR	THS4120CDR
SN75LBC180DR	THS1030CDW	THS3102CD	THS4032CD	THS4120ID
SN75LBC182D	THS1030CDWR	THS3102CDR	THS4032CDR	THS4120IDR
SN75LBC182DR	THS1030IDW	THS3102ID	THS4032ID	THS4121CD
SN75LBC184D	THS1030IDWR	THS3102IDR	THS4032IDR	THS4121CDR
SN75LBC184DR	THS1031CDW	THS3112CD	THS4041CD	THS4121ID
SN75LBC771DW	THS1031CDWR	THS3112CDR	THS4041CDR	THS4121IDR
SN75LBC771DWR	THS1031IDW	THS3112ID	THS4041ID	THS4130CD
SN75LBC775DWR	THS1031IDWR	THS3112IDR	THS4041IDR	THS4130CDR
SN75LBC776DBR	THS1040CDW	THS3115CD	THS4042CD	THS4130ID
SN75LBC776DW	THS1040CDWR	THS3115CDR	THS4042CDR	THS4130IDR
SN75LBC776DWR	THS1040IDW	THS3115ID	THS4042ID	THS4131CD
SN75LBC777DW	THS1040IDWR	THS3115IDR	THS4042IDR	THS4131CDR
SN75LBC777DWR	THS1041CDW	THS3122CD	THS4051CD	THS4131ID
SN75LBC784DWR	THS1041CDWR	THS3122CDR	THS4051CDR	THS4131IDR
SN75LBC786DW	THS1041IDW	THS3122ID	THS4051ID	THS4140CD
SN75LVDS050D	THS1041IDWR	THS3122IDR	THS4051IDR	THS4140CDR
SN75LVDS050DR	THS1215CDW	THS3125CD	THS4052CD	THS4140ID
SN75LVDS051D	THS1215CDWR	THS3125CDR	THS4052CDR	THS4140IDR
SN75LVDS051DR	THS1215IDW	THS3125ID	THS4052ID	THS4141CD
SN75LVDS179D	THS1215IDWR	THS3125IDR	THS4052IDR	THS4141CDR
SN75LVDS179DR	THS1230CDW	THS3202D	THS4061CD	THS4141ID
SN75LVDS180D	THS1230CDWR	THS3202DR	THS4061CDR	THS4141IDR
SN75LVDS180DR	THS1230IDW	THS4001CD	THS4061ID	THS4150CD
SN75LVDS31D	THS1230IDWR	THS4001CDR	THS4061IDR	THS4150CDR
SN75LVDS31DR	THS3001CD	THS4001ID	THS4062CD	THS4150ID

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THS4150IDR	THS6052CDR	TL3016CD	TLC072AID	TLC0831ID
THS4151CD	THS6052ID	TL3016CDR	TLC072AIDR	TLC0831IDR
THS4151CDR	THS6052IDR	TL3016ID	TLC072CD	TLC0832CD
THS4151ID	THS6053CD	TL3016IDR	TLC072CDR	TLC0832CDR
THS4151IDR	THS6053CDR	TL3116CD	TLC072ID	TLC0832ID
THS4500CD	THS6053ID	TL3116CDR	TLC072IDR	TLC0832IDR
THS4500CDR	THS6053IDR	TL3116ID	TLC073AID	TLC0834CD
THS4500ID	THS6062CD	TL3116IDR	TLC073AIDR	TLC0834CDR
THS4500IDR	THS6062CDR	TL33071D	TLC073CD	TLC0834ID
THS4501CD	THS6062ID	TL33071DR	TLC073CDR	TLC0834IDR
THS4501CDR	THS6062IDR	TL3511DW	TLC073ID	TLC0838CDW
THS4501ID	THS6072CD	TL5001ACD	TLC073IDR	TLC0838CDWR
THS4501IDR	THS6072CDR	TL5001ACDR	TLC074AID	TLC0838IDW
THS4502CD	THS6072ID	TL5001AID	TLC074AIDR	TLC0838IDWR
THS4502CDR	THS6072IDR	TL5001AIDR	TLC074CD	TLC083AID
THS4502ID	THS6092CD	TL5001CD	TLC074CDR	TLC083AIDR
THS4502IDR	THS6092CDR	TL5001CDR	TLC074ID	TLC083CD
THS4503CD	THS6092ID	TL5001CDR-A	TLC074IDR	TLC083CDR
THS4503CDR	THS6092IDR	TL5001CDR-B	TLC075AID	TLC083ID
THS4503ID	THS6093CD	TL5001CPS	TLC075AIDR	TLC083IDR
THS4503IDR	THS6093CDR	TL5001CPSR	TLC075CD	TLC084AID
THS4504D	THS6093ID	TL5001CPSR-M	TLC075CDR	TLC084AIDR
THS4504DR	THS6093IDR	TL5001CPSR-M1	TLC075ID	TLC084CD
THS4505D	TIR1000PS	TL5001ID	TLC075IDR	TLC084CDR
THS4505DR	TIR1000PSR	TL5001IDR	TLC080AID	TLC084ID
THS4601CD	TL1451ACD	TL5001IPS	TLC080AIDR	TLC084IDR
THS4601CDR	TL1451ACDB	TL5001IPSR	TLC080CD	TLC085AID
THS4601ID	TL1451ACDBR	TL5001PS-M	TLC080CDR	TLC085AIDR
THS4601IDR	TL1451ACDR	TL5001PS-M1	TLC080ID	TLC085CD
THS5641AIDW	TL1451ACNS	TL5001PSR-M	TLC080IDR	TLC085CDR
THS5641AIDWR	TL1451ACNSR	TL5001PSR-M1	TLC081AID	TLC085ID
THS5643IDW	TL1451CDB	TL5002CD	TLC081AIDR	TLC085IDR
THS5643IDWR	TL1451CDBR	TL5002CDR	TLC081CD	TLC1078CD
THS5651AIDW	TL1451CNS	TL851CDR	TLC081CDR	TLC1078CDR
THS5651AIDWR	TL1451CNSR	TL852CDR	TLC081ID	TLC1078CPS
THS5661AIDW	TL1451INS	TLC04CD	TLC081IDR	TLC1078CPSR
THS5661AIDWR	TL1451INSR	TLC04ID	TLC0820ACDB	TLC1078ID
THS5671AIDW	TL1453CD	TLC04IDR	TLC0820ACDBR	TLC1078IDR
THS5671AIDWR	TL1453CDR	TLC070AID	TLC0820ACDW	TLC1079CD
THS6042CD	TL1453CNS	TLC070AIDR	TLC0820ACDWR	TLC1079CDR
THS6042CDR	TL1453CNSR	TLC070CD	TLC0820AIDW	TLC1079CNS
THS6042ID	TL1454ACD	TLC070CDR	TLC0820AIDWR	TLC1079CNSR
THS6042IDR	TL1454ACDB	TLC070ID	TLC082AID	TLC1079ID
THS6042TD	TL1454ACDBR	TLC070IDR	TLC082AIDR	TLC1079IDR
THS6042TDR	TL1454ACDR	TLC071AID	TLC082CD	TLC14CD
THS6043CD	TL1454ACNS	TLC071AIDR	TLC082CDR	TLC14CDR
THS6043CDR	TL1454ACNSR	TLC071CD	TLC082ID	TLC14ID
THS6043ID	TL1454CDB	TLC071CDR	TLC082IDR	TLC1514ID
THS6043IDR	TL1596CDB	TLC071ID	TLC0831CD	TLC1514IDR
THS6052CD	TL1596CDBR	TLC071IDR	TLC0831CDR	TLC1518IDW

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TLC1518IDWR	TLC2254AID	TLC252ACD	TLC25M2ACD	TLC272BCD
TLC1541CDW	TLC2254AIDR	TLC252BCD	TLC25M2CD	TLC272BCDR
TLC1541CDWR	TLC2254CD	TLC252BCDR	TLC25M2CDR	TLC272BCPS
TLC1541IDW	TLC2254CDR	TLC252CD	TLC25M2CPS	TLC272BCPSR
TLC1541IDWR	TLC2254ID	TLC252CDR	TLC25M2CPSR	TLC272BID
TLC1542CDW	TLC2254IDR	TLC252CPS	TLC25M4ACD	TLC272BIDR
TLC1542IDW	TLC2262AID	TLC252CPSR	TLC25M4CD	TLC272CD
TLC1542IDWR	TLC2262AIDR	TLC2543CDB	TLC25M4CDR	TLC272CDR
TLC1543CDB	TLC2262CD	TLC2543CDBR	TLC2652AC-14D	TLC272CPS
TLC1543CDBR	TLC2262CDR	TLC2543CDW	TLC2652AC-8D	TLC272CPSR
TLC1543CDW	TLC2262ID	TLC2543CDWR	TLC2652AI-14D	TLC272ID
TLC1543CDWR	TLC2262IDR	TLC2543IDB	TLC2652AI-8D	TLC272IDR
TLC1543IDB	TLC2264AID	TLC2543IDBR	TLC2652AI-8DR	TLC274ACD
TLC1543IDBR	TLC2264AIDR	TLC2543IDW	TLC2652C-8D	TLC274ACDB
TLC1543IDW	TLC2264CD	TLC2543IDWR	TLC2652C-8DR	TLC274ACDR
TLC1543IDWR	TLC2264CDR	TLC254ACD	TLC2652I-8D	TLC274AID
TLC1549CD	TLC2264ID	TLC254BCD	TLC2652I-8DR	TLC274AIDR
TLC1549CDR	TLC2264IDR	TLC254CD	TLC2654AC-8D	TLC274BCD
TLC1549ID	TLC2264INS	TLC254CNS	TLC2654AI-8D	TLC274BCDR
TLC1549IDR	TLC2264INSR	TLC254ID	TLC2654C-14DR	TLC274BCNS
TLC1550IDW	TLC2272ACD	TLC254IDR	TLC2654C-8D	TLC274BCNSR
TLC1550IDWR	TLC2272ACDR	TLC2551ID	TLC2654C-8DR	TLC274BID
TLC1551IDW	TLC2272AID	TLC2551IDR	TLC2654I-8D	TLC274BIDR
TLC1551IDWR	TLC2272AIDR	TLC2552ID	TLC2654I-8DR	TLC274CD
TLC1575IDW	TLC2272CD	TLC2552IDR	TLC271ACD	TLC274CDB
TLC1575IDWR	TLC2272CDR	TLC2554CD	TLC271ACDR	TLC274CDBR
TLC2201ACD	TLC2272CPS	TLC2554CDR	TLC271ACPS	TLC274CDR
TLC2201ACDR	TLC2272CPSR	TLC2554ID	TLC271ACPSR	TLC274CNS
TLC2201AID	TLC2272ID	TLC2554IDR	TLC271AID	TLC274CNSR
TLC2201AIDR	TLC2272IDR	TLC2555ID	TLC271AIDR	TLC274ID
TLC2201CD	TLC2274ACD	TLC2555IDR	TLC271BCD	TLC274IDR
TLC2201CDR	TLC2274ACDR	TLC2558CDW	TLC271BCDR	TLC277CD
TLC2201ID	TLC2274AID	TLC2558CDWR	TLC271BCPS	TLC277CDR
TLC2201IDR	TLC2274AIDR	TLC2558IDW	TLC271BCPSR	TLC277CPS
TLC2202ACD	TLC2274CD	TLC2558IDWR	TLC271BID	TLC277CPSR
TLC2202ACDR	TLC2274CDB	TLC2574IDW	TLC271BIDR	TLC277ID
TLC2202ACPS	TLC2274CDBR	TLC2574IDWR	TLC271CD	TLC277IDR
TLC2202ACPSR	TLC2274CDR	TLC2578IDW	TLC271CDR	TLC279CD
TLC2202AID	TLC2274CNS	TLC2578IDWR	TLC271CPS	TLC279CDB
TLC2202CD	TLC2274CNS-A	TLC25L2ACD	TLC271CPSR	TLC279CDBR
TLC2202CDR	TLC2274CNSR	TLC25L2BCD	TLC271ID	TLC279CDR
TLC2202CPS	TLC2274CNSR-A	TLC25L2CD	TLC271IDR	TLC279CNS
TLC2202CPSR	TLC2274ID	TLC25L2CDR	TLC271PS-M	TLC279CNSR
TLC2202ID	TLC2274IDR	TLC25L2CPS	TLC271PSR-M	TLC279ID
TLC2252AID	TLC251ACD	TLC25L2CPSR	TLC272ACD	TLC279IDR
TLC2252AIDR	TLC251ACDR	TLC25L4ACD	TLC272ACDR	TLC27L1ACD
TLC2252CD	TLC251CD	TLC25L4BCD	TLC272ACPS	TLC27L1AID
TLC2252CDR	TLC251CDR	TLC25L4CD	TLC272ACPSR	TLC27L1AIDR
TLC2252ID	TLC251CPS	TLC25L4CDB	TLC272AID	TLC27L1BCD
TLC2252IDR	TLC251CPSR	TLC25L4CDR	TLC272AIDR	TLC27L1BID

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TLC27L1CD	TLC27L9ID	TLC27M9ID	TLC3704CNSR	TLC541INSR
TLC27L1CDR	TLC27L9IDR	TLC27M9IDR	TLC3704ID	TLC542CDW
TLC27L1ID	TLC27M2ACD	TLC2933IDB	TLC3704IDR	TLC542CDWR
TLC27L1IDR	TLC27M2ACDR	TLC2942DUAL	TLC372CD	TLC542IDW
TLC27L2ACD	TLC27M2AID	TLC2943DUAL	TLC372CDR	TLC542IDWR
TLC27L2ACDR	TLC27M2AIDR	TLC320AD50CDW	TLC372CPS	TLC548CD
TLC27L2ACPS	TLC27M2BCD	TLC320AD50CDWR	TLC372CPSR	TLC548CDR
TLC27L2ACPSR	TLC27M2BCDR	TLC320AD50IDW	TLC372ID	TLC548ID
TLC27L2AID	TLC27M2BCPS	TLC339CD	TLC372IDR	TLC548IDR
TLC27L2AIDR	TLC27M2BCPSR	TLC339CDB	TLC374CD	TLC549CD
TLC27L2BCD	TLC27M2BID	TLC339CDBR	TLC374CDB	TLC549CDR
TLC27L2BCDR	TLC27M2BIDR	TLC339CDR	TLC374CDBR	TLC549ID
TLC27L2BID	TLC27M2CD	TLC339CNS	TLC374CDR	TLC549IDR
TLC27L2BIDR	TLC27M2CDR	TLC339CNSR	TLC374CNS	TLC549IPS
TLC27L2CD	TLC27M2CPS	TLC339ID	TLC374CNSR	TLC549IPS-A
TLC27L2CDR	TLC27M2CPSR	TLC339IDR	TLC374ID	TLC549IPSR
TLC27L2CPS	TLC27M2ID	TLC352CD	TLC374IDR	TLC5510AINS
TLC27L2CPSR	TLC27M2IDR	TLC352CDR	TLC393CD	TLC5510AINSR
TLC27L2ID	TLC27M2PS-M	TLC352ID	TLC393CDR	TLC5510INS
TLC27L2IDR	TLC27M4ACD	TLC352IDR	TLC393CPS	TLC5510INS-A
TLC27L4ACD	TLC27M4ACDR	TLC3541ID	TLC393CPSR	TLC5510INS-C
TLC27L4ACDR	TLC27M4ACNS	TLC3541IDR	TLC393ID	TLC5510INSR
TLC27L4ACNS	TLC27M4ACNSR	TLC3544CDW	TLC393IDR	TLC5510INSR-A
TLC27L4ACNSR	TLC27M4AID	TLC3544CDWR	TLC4501ACD	TLC5510INSR-C
TLC27L4AID	TLC27M4AIDR	TLC3544IDW	TLC4501ACDR	TLC551CD
TLC27L4AIDR	TLC27M4BCD	TLC3544IDWR	TLC4501AID	TLC552CD
TLC27L4BCD	TLC27M4BCDR	TLC3545ID	TLC4501AIDR	TLC552CDR
TLC27L4BCDR	TLC27M4BCNS	TLC3545IDR	TLC4501CD	TLC5540CNS
TLC27L4BCNS	TLC27M4BCNSR	TLC3548CDW	TLC4501CDR	TLC5540CNSR
TLC27L4BCNSR	TLC27M4BID	TLC3548CDWR	TLC4501ID	TLC5540INS
TLC27L4BID	TLC27M4BIDR	TLC3548IDW	TLC4501IDR	TLC5540INSR
TLC27L4BIDR	TLC27M4CD	TLC3548IDWR	TLC4502ACD	TLC555CD
TLC27L4CD	TLC27M4CDB	TLC354CD	TLC4502ACDR	TLC555CDR
TLC27L4CDB	TLC27M4CDBR	TLC354CDB	TLC4502AID	TLC555CPS
TLC27L4CDBR	TLC27M4CDR	TLC354CDBR	TLC4502AIDR	TLC555CPSR
TLC27L4CDR	TLC27M4CNS	TLC354ID	TLC4502CD	TLC555ID
TLC27L4CNS	TLC27M4CNSR	TLC354IDR	TLC4502CDR	TLC555IDR
TLC27L4CNSR	TLC27M4ID	TLC3574IDW	TLC4502ID	TLC556CD
TLC27L4ID	TLC27M4IDR	TLC3574IDWR	TLC4502IDR	TLC556CDR
TLC27L4IDR	TLC27M7CD	TLC3578IDW	TLC4541ID	TLC556ID
TLC27L7CD	TLC27M7CDR	TLC3578IDWR	TLC4541IDR	TLC556IDR
TLC27L7CDR	TLC27M7CPS	TLC3702CD	TLC4545ID	TLC5602CDW
TLC27L7CPS	TLC27M7CPSR	TLC3702CDR	TLC4545IDR	TLC5602CDWR
TLC27L7CPSR	TLC27M7ID	TLC3702CPS	TLC540IDW	TLC5615CD
TLC27L7ID	TLC27M7IDR	TLC3702CPSR	TLC540IDWR	TLC5615CDR
TLC27L7IDR	TLC27M9CD	TLC3702ID	TLC540INS	TLC5615ID
TLC27L9CD	TLC27M9CDB	TLC3702IDR	TLC540INSR	TLC5615IDR
TLC27L9CDR	TLC27M9CDR	TLC3704CD	TLC541IDW	TLC5620CD
TLC27L9CNS	TLC27M9CNS	TLC3704CDR	TLC541IDWR	TLC5620CDR
TLC27L9CNSR	TLC27M9CNSR	TLC3704CNS	TLC541INS	TLC5620ID

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TLC5620IDR	TLC7725ID	TLE2062ACDR	TLE2084ACDW	TLV0831CDR
TLC5628CDW	TLC7725IDR	TLE2062AID	TLE2084ACDWR	TLV0831ID
TLC5628CDWR	TLC7725QD	TLE2062AIDR	TLE2084AIDW	TLV0831IDR
TLC5628IDW	TLC7725QDR	TLE2062CD	TLE2084CDW	TLV0832CD
TLC5628IDWR	TLC7733ID	TLE2062CDR	TLE2084CDWR	TLV0832CDR
TLC574IDW	TLC7733IDR	TLE2062ID	TLE2084IDW	TLV0832ID
TLC574IDWR	TLC7733QD	TLE2062IDR	TLE2141ACD	TLV0832IDR
TLC578IDW	TLC7733QDR	TLE2064ACD	TLE2141AID	TLV0834CD
TLC578IDWR	TLE2021ACD	TLE2064ACDR	TLE2141CD	TLV0834CDR
TLC7135CDW	TLE2021ACDR	TLE2064AID	TLE2141CDR	TLV0834ID
TLC7135CDWR	TLE2021ACPS	TLE2064AIDR	TLE2141ID	TLV0834IDR
TLC7225CDW	TLE2021ACPSR	TLE2064CD	TLE2141IDR	TLV0838CDW
TLC7225CDWR	TLE2021AID	TLE2064CDR	TLE2142ACD	TLV0838CDWR
TLC7225IDW	TLE2021AIDR	TLE2064ID	TLE2142ACDR	TLV0838IDW
TLC7225IDWR	TLE2021CD	TLE2064IDR	TLE2142AID	TLV0838IDWR
TLC7226CDW	TLE2021CDR	TLE2071ACD	TLE2142AIDR	TLV1504ID
TLC7226CDWR	TLE2021CPS	TLE2071ACDR	TLE2142CD	TLV1504IDR
TLC7226IDW	TLE2021CPSR	TLE2071AID	TLE2142CDR	TLV1508IDW
TLC7226IDWR	TLE2021ID	TLE2071AIDR	TLE2142ID	TLV1508IDWR
TLC7524CD	TLE2021IDR	TLE2071CD	TLE2142IDR	TLV1543CDB
TLC7524CDR	TLE2022ACD	TLE2071ID	TLE2144CDW	TLV1543CDBR
TLC7524CNS	TLE2022ACDR	TLE2071IDR	TLE2144CDWR	TLV1543CDW
TLC7524CNSR	TLE2022AID	TLE2072ACD	TLE2144IDW	TLV1543CDWR
TLC7524ED	TLE2022AIDR	TLE2072AID	TLE2144IDWR	TLV1543IDB
TLC7524EDR	TLE2022CD	TLE2072AIDR	TLE2161ACD	TLV1543IDBR
TLC7524ID	TLE2022CDR	TLE2072CD	TLE2161AID	TLV1544CD
TLC7524IDR	TLE2022ID	TLE2072CDR	TLE2161AID10	TLV1544CDR
TLC7528CDW	TLE2022IDR	TLE2072CPS	TLE2161AIDR	TLV1544ID
TLC7528CDWR	TLE2024ACDW	TLE2072ID	TLE2161CD	TLV1544IDR
TLC7528CNS	TLE2024ACDWR	TLE2074ACDW	TLE2161ID	TLV1548CDB
TLC7528CNSR	TLE2024AIDW	TLE2074AIDW	TLE2425CD	TLV1548CDBR
TLC7528EDW	TLE2024CDW	TLE2074CDW	TLE2425CDR	TLV1548IDB
TLC7528EDWR	TLE2024CDWR	TLE2074CDWR	TLE2425CPS	TLV1548IDBR
TLC7528IDW	TLE2024IDW	TLE2074IDW	TLE2425CPSR	TLV1549CD
TLC7528IDWR	TLE2027CD	TLE2081ACD	TLE2425ID	TLV1549CDR
TLC7528IDWR10	TLE2027CDR	TLE2081AID	TLE2425IDR	TLV1549ID
TLC7628CDW	TLE2027CPS	TLE2081CD	TLE2425PS-M	TLV1562CDW
TLC7628CDWR	TLE2027ID	TLE2081CDR	TLE2426CD	TLV1562CDWR
TLC7701ID	TLE2027IDR	TLE2081ID	TLE2426CDR	TLV1562IDW
TLC7701IDR	TLE2037CD	TLE2081IDR	TLE2426CPS	TLV1562IDWR
TLC7701QD	TLE2037CDR	TLE2082ACD	TLE2426CPSR	TLV1570CDW
TLC7701QDR	TLE2037ID	TLE2082ACDR	TLE2426ID	TLV1570CDWR
TLC7703ID	TLE2037IDR	TLE2082AID	TLE2426IDR	TLV1570IDW
TLC7703IDR	TLE2061ACD	TLE2082AIDR	TLP326ADB	TLV1570IDWR
TLC7703QD	TLE2061AID	TLE2082CD	TLP326ADBR	TLV1571CDW
TLC7703QDR	TLE2061CD	TLE2082CDR	TLS1019DBR	TLV1571CDWR
TLC7705ID	TLE2061CDR	TLE2082CPS	TLS1608ADR	TLV1571IDW
TLC7705IDR	TLE2061ID	TLE2082CPSR	TLS9110NS	TLV1571IDWR
TLC7705QD	TLE2061IDR	TLE2082ID	TLS9110NSR	TLV1572CD
TLC7705QDR	TLE2062ACD	TLE2082IDR	TLV0831CD	TLV1572CDR

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TLV1572ID	TLV2341IDR	TLV2424ID	TLV2454AID	TLV2470CD
TLV1572IDR	TLV2342ID	TLV2424IDR	TLV2454AIDR	TLV2470CDR
TLV1572QD	TLV2342IDR	TLV2432AID	TLV2454CD	TLV2470ID
TLV1572QDR	TLV2344ID	TLV2432AIDR	TLV2454CDR	TLV2470IDR
TLV2241CD	TLV2352ID	TLV2432CD	TLV2454ID	TLV2471AID
TLV2241CDR	TLV2352IDR	TLV2432CDR	TLV2454IDR	TLV2471AIDR
TLV2241ID	TLV2354ID	TLV2432ID	TLV2455AID	TLV2471CD
TLV2241IDR	TLV2354IDR	TLV2432IDR	TLV2455AIDR	TLV2471CDR
TLV22422CD	TLV2370ID	TLV2434AID	TLV2455CD	TLV2471ID
TLV22422CDR	TLV2370IDR	TLV2434AIDR	TLV2455CDR	TLV2471IDR
TLV2242CD	TLV2371ID	TLV2434CD	TLV2455ID	TLV2472AID
TLV2242CDR	TLV2371IDR	TLV2434CDR	TLV2455IDR	TLV2472AIDR
TLV2242ID	TLV2372ID	TLV2434ID	TLV2460AID	TLV2472CD
TLV2242IDR	TLV2372IDR	TLV2434IDR	TLV2460AIDR	TLV2472CDR
TLV22432CD	TLV2373ID	TLV2442AID	TLV2460CD	TLV2472ID
TLV22432CDR	TLV2373IDR	TLV2442AIDR	TLV2460CDR	TLV2472IDR
TLV22442CD	TLV2374ID	TLV2442CD	TLV2460ID	TLV2473AID
TLV22442CDR	TLV2374IDR	TLV2442CDR	TLV2460IDR	TLV2473AIDR
TLV2244CD	TLV2375ID	TLV2442ID	TLV2461AID	TLV2473CD
TLV2244CDR	TLV2375IDR	TLV2442IDR	TLV2461AIDR	TLV2473CDR
TLV2244ID	TLV2381ID	TLV2444AID	TLV2461CD	TLV2473ID
TLV2244IDR	TLV2381IDR	TLV2444AIDR	TLV2461CDR	TLV2473IDR
TLV2252AID	TLV2382ID	TLV2444CD	TLV2461ID	TLV2474AID
TLV2252AIDR	TLV2382IDR	TLV2444CDR	TLV2461IDR	TLV2474AIDR
TLV2252ID	TLV2401AID	TLV2444ID	TLV2462AID	TLV2474CD
TLV2252IDR	TLV2401AIDR	TLV2444IDR	TLV2462AIDR	TLV2474CDR
TLV2254AID	TLV2401CD	TLV2450AID	TLV2462CD	TLV2474ID
TLV2254AIDR	TLV2401CDR	TLV2450AIDR	TLV2462CDR	TLV2474IDR
TLV2254ID	TLV2401ID	TLV2450CD	TLV2462ID	TLV2475AID
TLV2254IDR	TLV2401IDR	TLV2450CDR	TLV2462IDR	TLV2475AIDR
TLV2262AID	TLV2402AID	TLV2450ID	TLV2463AID	TLV2475CD
TLV2262AIDR	TLV2402AIDR	TLV2450IDR	TLV2463AIDR	TLV2475CDR
TLV2262ID	TLV2402CD	TLV2451AID	TLV2463CD	TLV2475ID
TLV2262IDR	TLV2402CDR	TLV2451AIDR	TLV2463CDR	TLV2475IDR
TLV2264AID	TLV2402ID	TLV2451CD	TLV2463ID	TLV2541ID
TLV2264AIDR	TLV2402IDR	TLV2451CDR	TLV2463IDR	TLV2541IDR
TLV2264ID	TLV2404CD	TLV2451ID	TLV2464AID	TLV2542ID
TLV2264IDR	TLV2404CDR	TLV2451IDR	TLV2464AIDR	TLV2542IDR
TLV2302ID	TLV2404ID	TLV2452AID	TLV2464CD	TLV2543CDB
TLV2302IDR	TLV2404IDR	TLV2452AIDR	TLV2464CDR	TLV2543CDBR
TLV2304ID	TLV2422AID	TLV2452CD	TLV2464ID	TLV2543CDW
TLV2304IDR	TLV2422AIDR	TLV2452CDR	TLV2464IDR	TLV2543CDWR
TLV2322ID	TLV2422CD	TLV2452ID	TLV2465AID	TLV2543IDB
TLV2322IDR	TLV2422CDR	TLV2452IDR	TLV2465AIDR	TLV2543IDBR
TLV2324ID	TLV2422ID	TLV2453AID	TLV2465CD	TLV2543IDW
TLV2324IDR	TLV2422IDR	TLV2453AIDR	TLV2465CDR	TLV2543IDWR
TLV2332ID	TLV2424AID	TLV2453CD	TLV2465ID	TLV2544CD
TLV2334ID	TLV2424AIDR	TLV2453CDR	TLV2465IDR	TLV2544CDR
TLV2334IDR	TLV2424CD	TLV2453ID	TLV2470AID	TLV2544ID
TLV2341ID	TLV2424CDR	TLV2453IDR	TLV2470AIDR	TLV2544IDR

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TLV2545ID	TLV274CD	TLV2773CD	TLV2785ID	TLV4111ID
TLV2545IDR	TLV274CDR	TLV2773CDR	TLV2785IDR	TLV4111IDR
TLV2548CDW	TLV274ID	TLV2773ID	TLV27L1CD	TLV4112AID
TLV2548CDWR	TLV274IDR	TLV2773IDR	TLV27L1CDR	TLV4112AIDR
TLV2548IDW	TLV2760CD	TLV2774AID	TLV27L1ID	TLV4112CD
TLV2548IDWR	TLV2760CDR	TLV2774AIDR	TLV27L1IDR	TLV4112CDR
TLV2553IDW	TLV2760ID	TLV2774CD	TLV27L2CD	TLV4112ID
TLV2553IDWR	TLV2760IDR	TLV2774CDR	TLV27L2CDR	TLV4112IDR
TLV2556IDW	TLV2761CD	TLV2774ID	TLV27L2ID	TLV4113CD
TLV2556IDWR	TLV2761CDR	TLV2774IDR	TLV27L2IDR	TLV4113CDR
TLV2620ID	TLV2761ID	TLV2775AID	TLV320AC36CDW	TLV4113ID
TLV2620IDR	TLV2761IDR	TLV2775AIDR	TLV320AC36CDWR	TLV4113IDR
TLV2621ID	TLV2762CD	TLV2775CD	TLV320AC36IDW	TLV4120AID
TLV2621IDR	TLV2762CDR	TLV2775CDR	TLV320AC36IDWR	TLV4120AIDR
TLV2622CD	TLV2762ID	TLV2775ID	TLV320AC37CDW	TLV4120CD
TLV2622CDR	TLV2762IDR	TLV2775IDR	TLV320AC40CDW	TLV4120CDR
TLV2622ID	TLV2763CD	TLV2780AID	TLV3401AID	TLV4120ID
TLV2622IDR	TLV2763CDR	TLV2780AIDR	TLV3401AIDR	TLV4120IDR
TLV2623CD	TLV2763ID	TLV2780CD	TLV3401CD	TLV4121AID
TLV2623CDR	TLV2763IDR	TLV2780CDR	TLV3401CDR	TLV4121AIDR
TLV2623ID	TLV2764CD	TLV2780ID	TLV3401ID	TLV4121CD
TLV2623IDR	TLV2764CDR	TLV2780IDR	TLV3401IDR	TLV4121CDR
TLV2624ID	TLV2764ID	TLV2781AID	TLV3402AID	TLV4121ID
TLV2624IDR	TLV2764IDR	TLV2781AIDR	TLV3402AIDR	TLV4121IDR
TLV2625ID	TLV2765CD	TLV2781CD	TLV3402CD	TLV5580CDW
TLV2625IDR	TLV2765CDR	TLV2781CDR	TLV3402CDR	TLV5580CDWR
TLV2630ID	TLV2765ID	TLV2781ID	TLV3402ID	TLV5580IDW
TLV2630IDR	TLV2765IDR	TLV2781IDR	TLV3402IDR	TLV5580IDWR
TLV2631ID	TLV2770AID	TLV2782AID	TLV3404CD	TLV5604CD
TLV2631IDR	TLV2770AIDR	TLV2782AIDR	TLV3404CDR	TLV5604CDR
TLV2632ID	TLV2770CD	TLV2782CD	TLV3404ID	TLV5604ID
TLV2632IDR	TLV2770CDR	TLV2782CDR	TLV3404IDR	TLV5604IDR
TLV2633ID	TLV2770ID	TLV2782ID	TLV3701CD	TLV5606CD
TLV2633IDR	TLV2770IDR	TLV2782IDR	TLV3701CDR	TLV5606CDR
TLV2634ID	TLV2771AID	TLV2783AID	TLV3701ID	TLV5606ID
TLV2634IDR	TLV2771AIDR	TLV2783AIDR	TLV3701IDR	TLV5606IDR
TLV2635ID	TLV2771CD	TLV2783CD	TLV3702CD	TLV5608IDW
TLV2635IDR	TLV2771CDR	TLV2783CDR	TLV3702CDR	TLV5608IDWR
TLV2702ID	TLV2771ID	TLV2783ID	TLV3702ID	TLV5610IDW
TLV2702IDR	TLV2771IDR	TLV2783IDR	TLV3702IDR	TLV5610IDWR
TLV2704ID	TLV2772ACD	TLV2784AID	TLV3704CD	TLV5613CDW
TLV2704IDR	TLV2772ACDR	TLV2784AIDR	TLV3704CDR	TLV5613CDWR
TLV271CD	TLV2772AID	TLV2784CD	TLV3704ID	TLV5613IDW
TLV271CDR	TLV2772AIDR	TLV2784CDR	TLV3704IDR	TLV5613IDWR
TLV271ID	TLV2772CD	TLV2784ID	TLV4110CD	TLV5614CD
TLV271IDR	TLV2772CDR	TLV2784IDR	TLV4110CDR	TLV5614CDR
TLV272CD	TLV2772ID	TLV2785AID	TLV4110ID	TLV5614ID
TLV272CDR	TLV2772IDR	TLV2785AIDR	TLV4110IDR	TLV5614IDR
TLV272ID	TLV2773AID	TLV2785CD	TLV4111CD	TLV5616CD
TLV272IDR	TLV2773AIDR	TLV2785CDR	TLV4111CDR	TLV5616CDR

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TLV5616ID	TLV5631IDW	TP3056BDW	TPIC2603DW	TPS1120D
TLV5616IDR	TLV5631IDWR	TP3056BDWR	TPIC2603DWR	TPS1120DR
TLV5617ACD	TLV5632IDW	TP3057ADW	TPIC2810D	TPS2010AD
TLV5617ACDR	TLV5632IDWR	TP3057ADWR	TPIC2810DR	TPS2010ADR
TLV5617AID	TLV5633CDW	TP3057BDW	TPIC44L01DB	TPS2010D
TLV5617AIDR	TLV5633CDWR	TP3057BDWR	TPIC44L01DBR	TPS2010DR
TLV5618ACD	TLV5633IDW	TP3064BDW	TPIC44L02DB	TPS2011AD
TLV5618ACDR	TLV5633IDWR	TP3064BDWR	TPIC44L02DBR	TPS2011ADR
TLV5618AID	TLV5636CD	TP3067ADW	TPIC44L03DB	TPS2011D
TLV5618AIDR	TLV5636CDR	TP3067BDW	TPIC44L03DBR	TPS2011DR
TLV5619CDW	TLV5636ID	TP3067BDWR	TPIC46L01DB	TPS2012AD
TLV5619CDWR	TLV5636IDR	TPA112D	TPIC46L01DBR	TPS2012ADR
TLV5619IDW	TLV5637CD	TPA112DR	TPIC46L02DB	TPS2012D
TLV5619IDWR	TLV5637CDR	TPA122D	TPIC46L02DBR	TPS2012DR
TLV5620CD	TLV5637ID	TPA122DR	TPIC46L03DB	TPS2013AD
TLV5620CDR	TLV5637IDR	TPA152D	TPIC46L03DBR	TPS2013ADR
TLV5620ID	TLV5638CD	TPA152DR	TPIC5423LDWR	TPS2013D
TLV5620IDR	TLV5638CDR	TPA301D	TPIC6259DW	TPS2013DR
TLV5621ED	TLV5638ID	TPA301DR	TPIC6259DWR	TPS2014D
TLV5621EDR	TLV5638IDR	TPA302D	TPIC6273DW	TPS2014DR
TLV5621ID	TLV5639CDW	TPA302DR	TPIC6273DWR	TPS2015D
TLV5621IDR	TLV5639CDWR	TPA311D	TPIC6595DW	TPS2015DR
TLV5623CD	TLV5639IDW	TPA311DR	TPIC6595DWR	TPS2020D
TLV5623CDR	TLV5639IDWR	TPA321D	TPIC6596DW	TPS2020DR
TLV5623ID	TLV571CDW	TPA321DR	TPIC6596DWR	TPS2021D
TLV5623IDR	TLV571CDWR	TPA4860D	TPIC6A259DW	TPS2021DR
TLV5624CD	TLV571IDW	TPA4860DR	TPIC6A259DWR	TPS2022D
TLV5624CDR	TLV571IDWR	TPA4861D	TPIC6A595DW	TPS2022DR
TLV5624ID	TMS3705AD	TPA4861DR	TPIC6A595DWR	TPS2023D
TLV5624IDR	TMS3705ADR	TPA6100A2D	TPIC6A596DW	TPS2023DR
TLV5625CD	TMS3705D	TPA6100A2DR	TPIC6A596DWR	TPS2024D
TLV5625CDR	TMS3705DR	TPA6101A2D	TPIC6B259DW	TPS2024DR
TLV5625ID	TMS3723BDWR	TPA6101A2DR	TPIC6B273DW	TPS2030D
TLV5625IDR	TNETD6062D	TPA6102A2D	TPIC6B273DWR	TPS2030DR
TLV5626CD	TNETD6062DR	TPA6102A2DR	TPIC6B595DW	TPS2031D
TLV5626CDR	TP13054ADW	TPA6111A2D	TPIC6B595DWR	TPS2031DR
TLV5626ID	TP13054ADWR	TPA6111A2DR	TPIC6B596DW	TPS2032D
TLV5626IDR	TP13054BDW	TPA701D	TPIC6B596DWR	TPS2032DR
TLV5627CD	TP13054BDWR	TPA701DR	TPIC6C595D	TPS2033D
TLV5627CDR	TP13057ADW	TPA711D	TPIC6C595DR	TPS2033DR
TLV5627ID	TP13057ADWR	TPA711DR	TPIC6C596D	TPS2034D
TLV5627IDR	TP13057BDW	TPA721D	TPIC6C596DR	TPS2034DR
TLV5628CDW	TP13057BDWR	TPA721DR	TPPM0115D	TPS2041AD
TLV5628CDWR	TP13064BDW	TPA731D	TPPM0115DR	TPS2041ADR
TLV5628IDW	TP13064BDWR	TPA731DR	TPPM0303D	TPS2041D
TLV5628IDWR	TP13067BDW	TPA741D	TPPM0303DR	TPS2041DR
TLV5629IDW	TP3054ADW	TPA741DR	TPS1100D	TPS2042AD
TLV5629IDWR	TP3054ADWR	TPA751D	TPS1100DR	TPS2042ADR
TLV5630IDW	TP3054BDW	TPA751DR	TPS1101D	TPS2042D
TLV5630IDWR	TP3054BDWR	TPIC2101D	TPS1101DR	TPS2042DR

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TPS2043AD	TPS2057D	TPS2202AIDBR	TPS2813DR	TPS3705-33D
TPS2043ADR	TPS2057DR	TPS2202IDB	TPS2814D	TPS3705-33DR
TPS2043D	TPS2058AD	TPS2202IDBR	TPS2814DR	TPS3705-50D
TPS2043DR	TPS2058ADR	TPS2205IDB	TPS2815D	TPS3705-50DR
TPS2044AD	TPS2058D	TPS2205IDBR	TPS2815DR	TPS3707-25D
TPS2044ADR	TPS2058DR	TPS2206IDB	TPS2830D	TPS3707-25DR
TPS2044D	TPS2074DB	TPS2206IDBR	TPS2830DR	TPS3707-30D
TPS2044DR	TPS2074DBR	TPS2211AIDB	TPS2831D	TPS3707-30DR
TPS2045AD	TPS2075DB	TPS2211AIDBR	TPS2831DR	TPS3707-33D
TPS2045ADR	TPS2075DBR	TPS2211IDB	TPS2832D	TPS3707-33DR
TPS2045D	TPS2080D	TPS2211IDBR	TPS2832DR	TPS3707-50D
TPS2045DR	TPS2080DR	TPS2212IDB	TPS2833D	TPS3707-50DR
TPS2046AD	TPS2081D	TPS2212IDBR	TPS2834D	TPS5103IDB
TPS2046ADR	TPS2081DR	TPS2214ADB	TPS2834DR	TPS5103IDBR
TPS2046D	TPS2082D	TPS2214ADBDR	TPS2835D	TPS5210DW
TPS2046DR	TPS2082DR	TPS2214DB	TPS2835DR	TPS5210DWR
TPS2047AD	TPS2085D	TPS2214DBR	TPS2836D	TPS62100D
TPS2047ADR	TPS2085DR	TPS2216ADB	TPS2836DR	TPS62100DR
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TPS2047DR	TPS2086DR	TPS2216DB	TPS2837DR	TPS62101DR
TPS2048AD	TPS2087D	TPS2216DBR	TPS3305-18D	TPS62102D
TPS2048ADR	TPS2087DR	TPS2223ADB	TPS3305-18DR	TPS62102DR
TPS2048D	TPS2090D	TPS2223ADBDR	TPS3305-25D	TPS62103D
TPS2048DR	TPS2090DR	TPS2223DB	TPS3305-25DR	TPS62103DR
TPS2051AD	TPS2091D	TPS2223DBR	TPS3305-33D	TPS6734ID
TPS2051ADR	TPS2091DR	TPS2224ADB	TPS3305-33DR	TPS6734IDR
TPS2051D	TPS2092D	TPS2224ADBDR	TPS3306-15D	TPS6735ID
TPS2051DR	TPS2092DR	TPS2224DB	TPS3306-15DR	TPS6735IDR
TPS2052AD	TPS2095D	TPS2224DBR	TPS3306-18D	TPS6755ID
TPS2052ADR	TPS2095DR	TPS2226ADB	TPS3306-18DR	TPS6755IDR
TPS2052D	TPS2096D	TPS2226ADBDR	TPS3306-20D	TPS7101QD
TPS2052DR	TPS2096DR	TPS2226DB	TPS3306-20DR	TPS7101QDR
TPS2053AD	TPS2097D	TPS2226DBR	TPS3306-25D	TPS71025D
TPS2053ADR	TPS2097DR	TPS2228DB	TPS3306-25DR	TPS71025DR
TPS2053D	TPS2097DR	TPS2228DBR	TPS3306-33D	TPS7133QD
TPS2053DR	TPS2100D	TPS2306DW	TPS3306-33DR	TPS7133QDR
TPS2054AD	TPS2100DR	TPS2306DWR	TPS3307-18D	TPS7148QD
TPS2054ADR	TPS2101D	TPS2320ID	TPS3307-18DR	TPS7148QDR
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TPS2055D	TPS2103DR	TPS2330IDR	TPS3510D	TPS7225QD
TPS2055DR	TPS2104D	TPS2331ID	TPS3510DR	TPS7225QDR
TPS2056AD	TPS2104DR	TPS2331IDR	TPS3513D	TPS7230QD
TPS2056ADR	TPS2105D	TPS2811D	TPS3513DR	TPS7230QDR
TPS2056D	TPS2105DR	TPS2811DR	TPS3514D	TPS7233QD
TPS2056DR	TPS2201IDB	TPS2812D	TPS3514DR	TPS7233QDR
TPS2057AD	TPS2201IDBR	TPS2812DR	TPS3705-30D	TPS7248QD
TPS2057ADR	TPS2202AIDB	TPS2813D	TPS3705-30DR	TPS7248QDR

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TPS7250QD	TPS76533DR	TPS76750QD	TPS77625DR	UCC27325DR
TPS7250QDR	TPS76550D	TPS76750QDR	TPS77628D	UCC2800DTR/81052
TPS7301QD	TPS76550DR	TPS76801QD	TPS77628DR	UCC28050D
TPS7301QDR	TPS76601D	TPS76801QDR	TPS77633D	UCC28050DR
TPS7325QD	TPS76601DR	TPS76815QD	TPS77633DR	UCC28083D
TPS7325QDR	TPS76615D	TPS76815QDR	TPS77701D	UCC28084D
TPS7330QD	TPS76615DR	TPS76818QD	TPS77701DR	UCC28085D
TPS7330QDR	TPS76618D	TPS76818QDR	TPS77715D	UCC28086D
TPS7333QD	TPS76618DR	TPS76825QD	TPS77715DR	UCC28501DW
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TPS7348QD	TPS76625DR	TPS76827QD	TPS77718DR	UCC29002D
TPS7348QDR	TPS76627D	TPS76827QDR	TPS77725D	UCC29002DR
TPS7350QD	TPS76627DR	TPS76828QD	TPS77725DR	UCC37321D
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TPS7415D	TPS76628DR	TPS76830QD	TPS77733DR	UCC37322D
TPS7415DR	TPS76630D	TPS76830QDR	TPS77801D	UCC37322DR
TPS7418D	TPS76630DR	TPS76833QD	TPS77801DR	UCC37323D
TPS7418DR	TPS76633D	TPS76833QDR	TPS77815D	UCC37323DR
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TPS7425DR	TPS76650D	TPS76850QDR	TPS77818D	UCC37324DR
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TPS76501DR	TPS76718QD	TPS77516DR	TSS721AD	UCC39002D
TPS76515D	TPS76718QDR	TPS77518D	TSS721ADR	UCC39002DR
TPS76515DR	TPS76725QD	TPS77518DR	UC2707DWTR	UCC81461DW
TPS76518D	TPS76725QDR	TPS77525D	UC3877DWP/81403	UCC81461DWR
TPS76518DR	TPS76727PWP	TPS77525DR	UCC27321D	UP2572D
TPS76525D	TPS76727PWPR	TPS77533D	UCC27321DR	UP2573D
TPS76525DR	TPS76727QD	TPS77533DR	UCC27322D	WM0831CD
TPS76527D	TPS76727QDR	TPS77601D	UCC27322DR	WM5620ID
TPS76527DR	TPS76728QD	TPS77601DR	UCC27323D	WM5620IDR
TPS76528D	TPS76728QDR	TPS77615D	UCC27323DR	XSN104714D
TPS76528DR	TPS76730QD	TPS77615DR	UCC27324D	XSN104726D
TPS76530D	TPS76730QDR	TPS77618D	UCC27324DR	XUC2852D
TPS76530DR	TPS76733QD	TPS77618DR	UCC27325D	XUC3843D8
TPS76533D	TPS76733QDR	TPS77625D		