



TOSHIBA AMERICA ELECTRONIC COMPONENTS INC.

To: DigiKey

October 2015

Please be informed Toshiba has announced discontinuation on the following product(s) in October 2015. Our sales records indicate you have purchased the following product(s) from Toshiba America Electronic Components in the past.

Products

Attached spreadsheet.

Last Time Buy (LTB) Option

Toshiba will support last time buy (LTB) orders received on or before the dates listed above (LTB Date). Last time buy orders for all affected products must be in place in total by LTB Date. Deliveries will be scheduled and advised accordingly after receipt of LTB orders. However, unforeseen circumstances might prevent Toshiba to support partially or fully on LTB orders. If such event occurs, we will notify you of our best support plan as soon as possible. Thank you for your understanding. Should you have any questions, please contact your sales representative.

Best Regards,

Logic Device, Discrete Business Unit
Toshiba America Electronics Components, Inc.

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Substitution Level**

- 0 = No replacement
- 1 = Package and characteristics are mostly same or better, not necessary to change other circuit to replace.
- 2 = Package and characteristics are mostly same or better, but some modification of the other circuit is necessary.
- 3 = Characteristics are same or better, but package/pin arrangement are different, so the other circuit modification is necessary.
- 4 = Other reason

TSB PN	LAST TIME BUY	OBSOLETE	Substitution Level	Replacement P/N
1SS181S,LF(D	12/31/2016	3/31/2017	1	1SS181,LF
1SS184S,LF(D	12/31/2016	3/31/2017	1	1SS184,LF
1SS193S,LF(D	12/31/2016	3/31/2017	1	1SS193,LF
1SS294S,LF(D	12/31/2016	3/31/2017	1	1SS294,LF
1SS352(TH3,F,D)	12/31/2016	3/31/2017	1	1SS352,H3F
1SS360(T5L,F,T)	12/31/2016	3/31/2017	1	1SS360,LJ(CT
1SS361(T5L,F,T)	12/31/2016	3/31/2017	1	1SS361,LJ(CT
1SS361FV,L3F(T	12/31/2016	3/31/2017	1	1SS361FV,L3F
1SS362FV,L3F(T	12/31/2016	3/31/2017	1	1SS362FV,L3F
1SS387(TL3,F,D)	12/31/2016	3/31/2017	1	1SS387,L3F
1SS388(TL3,F,D)	12/31/2016	3/31/2017	1	CES388,L3F
1SS389(TL3,F,D)	12/31/2016	3/31/2017	1	1SS389,L3F
1SS405(TL3,F,D)	12/31/2016	3/31/2017	1	1SS405,H3F
1SS413(TL3,T)	12/31/2016	3/31/2017	1	1SS413,L3M
1SS413,L3F(B	12/31/2016	3/31/2017	1	1SS413,L3M
1SS416(TL3,T)	12/31/2016	3/31/2017	1	1SS416,L3M
1SS416(TL4,D)	12/31/2016	3/31/2017	1	1SS416,L3M
2SA1162S-GR,LF(D	12/31/2016	3/31/2017	1	2SA1162-GR,LF
2SA1162S-Y,LF(D	12/31/2016	3/31/2017	1	2SA1162-Y,LF
2SA1586SU-GR,LF(D	12/31/2016	3/31/2017	1	2SA1586-GR,LF
2SA1832-GR(T5L,F,T	12/31/2016	3/31/2017	1	2SA1832-GR,LF
2SA1832-Y(T5L,F,T)	12/31/2016	3/31/2017	1	2SA1832-Y,LF
2SC4738-GR(T5L,F,T	12/31/2016	3/31/2017	1	2SC4738-GR,LF
2SC4738-Y(T5L,F,T)	12/31/2016	3/31/2017	1	2SC4738-Y,LF
2SC5066-Y(T5L,F,T)	12/31/2016	3/31/2017	1	2SC5066-Y,LF
2SC5086-O(T5L,F,T)	12/31/2016	3/31/2017	1	2SC5086-O,LF
2SC5086-Y(T5L,F,T)	12/31/2016	3/31/2017	1	2SC5086-Y,LF
2SC5108-Y(T5L,F,T)	12/31/2016	3/31/2017	1	2SC5108-Y,LF
DF2B6.8FS(TPL3,T)	12/31/2016	3/31/2017	1	DF2B6.8AFS,L3M
DF2B6.8FS(TPL4,D)	12/31/2016	3/31/2017	1	DF2B6.8AFS,L3M
DF2S6.2FS(TPL3)	12/31/2016	3/31/2017	1	DF2S6.2FS,L3M
DF2S6.8FS(TL4,D)	12/31/2016	3/31/2017	1	DF2S6.8FS,L3M
DF3A6.8LFV(TL3,T)	12/31/2016	3/31/2017	1	DF3A6.8LFV,L3F
DF5A6.8LJE,LM(T	12/31/2016	3/31/2017	1	DF5A6.8LJE,LM
HN1A01FU-GR(L,F,T)	12/31/2016	3/31/2017	1	HN1A01FU-GR,LF
HN1A01FU-Y(T5L,F,T)	12/31/2016	3/31/2017	1	HN1A01FU-Y,LF
HN1B01FU-GR(L,F,T)	12/31/2016	3/31/2017	1	HN1B01FU-GR,LF
HN1B04FE-GR(5L,F,T	12/31/2016	3/31/2017	1	HN1B04FE-GR,LF
HN1B04FU-GR(L,F,T)	12/31/2016	3/31/2017	1	HN1B04FU-GR,LF
HN1C01FE-GR(5L,F,T	12/31/2016	3/31/2017	1	HN1C01FE-GR,LF
HN1C01FU-GR(L,F,T)	12/31/2016	3/31/2017	1	HN1C01FU-GR,LF
HN1D01FU(T5L,F,T)	12/31/2016	3/31/2017	1	HN1D01FU,LF
HN1D03FU(T5L,F,T)	12/31/2016	3/31/2017	1	HN1D03FU,LF
HN2S03T(TE85L)	12/31/2016	3/31/2017	3	HN2S03FU(TE85L,F)
RN1101(T5L,F,T)	12/31/2016	3/31/2017	1	RN1101,LF(CT
RN1105(T5L,F,T)	12/31/2016	3/31/2017	1	RN1105,LF(CT

RN1105MFV(TL3,T)	12/31/2016	3/31/2017	1	RN1105MFV,L3F
RN1106(T5L,F,T)	12/31/2016	3/31/2017	1	RN1106,LF(CT
RN1106ACT(TPL3)	12/31/2016	3/31/2017	3	RN1106MFV,L3F
RN1106MFV(TL3,T)	12/31/2016	3/31/2017	1	RN1106MFV,L3F
RN1107(T5L,F,T)	12/31/2016	3/31/2017	1	RN1107,LF(CT
RN1108ACT(TPL3)	12/31/2016	3/31/2017	3	RN1108MFV,L3F
RN1110MFV(TL3,T)	12/31/2016	3/31/2017	1	RN1110MFV,L3F
RN1130MFV(TL3,T)	12/31/2016	3/31/2017	1	RN1130MFV,L3F
RN1302SU,LF(D	12/31/2016	3/31/2017	1	RN1302,LF
RN1402S,LF(D	12/31/2016	3/31/2017	1	RN1402,LF
RN1405S,LF(D	12/31/2016	3/31/2017	1	RN1405,LF
RN1406S,LF(D	12/31/2016	3/31/2017	1	RN1406,LF
RN1901(T5L,F,T)	12/31/2016	3/31/2017	1	RN1901,LF(CT
RN1902FE(T5L,F,T)	12/31/2016	3/31/2017	1	RN1902FE,LF(CT
RN1904(T5L,F,T)	12/31/2016	3/31/2017	1	RN1904,LF(CT
RN1904FE(T5L,F,T)	12/31/2016	3/31/2017	1	RN1904FE,LF(CT
RN1907(T5L,F,T)	12/31/2016	3/31/2017	1	RN1907,LF(CT
RN2101ACT(TPL3)	12/31/2016	3/31/2017	3	RN2101MFV,L3F
RN2102(T5L,F,T)	12/31/2016	3/31/2017	1	RN2102,LF(CT
RN2107ACT(TPL3)	12/31/2016	3/31/2017	3	RN2107MFV,L3F
RN2402S,LF(D	12/31/2016	3/31/2017	1	RN2402,LF
RN2903(T5L,F,T)	12/31/2016	3/31/2017	1	RN2903,LF(CT
RN4902(T5L,F,T)	12/31/2016	3/31/2017	1	RN4902,LF(CT
RN4981(T5L,F,T)	12/31/2016	3/31/2017	1	RN4981,LF(CT
RN4982(T5L,F,T)	12/31/2016	3/31/2017	1	RN4982,LF(CT
RN4983(T5L,F,T)	12/31/2016	3/31/2017	1	RN4983,LF(CT
RN4985(T5L,F,T)	12/31/2016	3/31/2017	1	RN4985,LF(CT
RN4986FE(T5L,F,T)	12/31/2016	3/31/2017	1	RN4986FE,LF(CT
RN4987(T5L,F,T)	12/31/2016	3/31/2017	1	RN4987,LF(CT
RN49A2(T5L,F,T)	12/31/2016	3/31/2017	1	RN49A2,LF(CT
SSM3J120TU(T5L,T)	12/31/2016	3/31/2017	1	SSM3J120TU,LF
SSM3J328R,LF(T	12/31/2016	3/31/2017	1	SSM3J328R,LF
SSM3J332R,LF(T	12/31/2016	3/31/2017	1	SSM3J332R,LF
SSM3J334R,LF(T	12/31/2016	3/31/2017	1	SSM3J334R,LF
SSM3J35MFV(TL3,T)	12/31/2016	3/31/2017	1	SSM3J35MFV,L3F
SSM3J56MFV,L3F(T	12/31/2016	3/31/2017	1	SSM3J56MFV,L3F
SSM3K123TU(T5L,T)	12/31/2016	3/31/2017	1	SSM3K123TU,LF
SSM3K15AFS,LF(D	12/31/2016	3/31/2017	1	SSM3K15AFS,LF
SSM3K15FS(T5L,F,T)	12/31/2016	3/31/2017	1	SSM3K15FS,LF
SSM3K17SU,LF(D	12/31/2016	3/31/2017	1	SSM3K17FU,LF
SSM3K324R,LF(T	12/31/2016	3/31/2017	1	SSM3K324R,LF
SSM3K329R,LF(T	12/31/2016	3/31/2017	1	SSM3K329R,LF
SSM3K333R,LF(T	12/31/2016	3/31/2017	1	SSM3K333R,LF
SSM3K335R,LF(T	12/31/2016	3/31/2017	1	SSM3K335R,LF
SSM3K36FS(T5L,F,D)	12/31/2016	3/31/2017	1	SSM3K36FS,LF
SSM3K36FS(T5L,F,T)	12/31/2016	3/31/2017	1	SSM3K36FS,LF
SSM3K36MFV(TL3,T)	12/31/2016	3/31/2017	1	SSM3K36MFV,L3F

SSM3K37MFV,L3F(T	12/31/2016	3/31/2017	1	SSM3K37MFV,L3F
SSM3K7002BS,LF(D	12/31/2016	3/31/2017	1	T2N7002AK,LM
SSM6J414TU,LF(T	12/31/2016	3/31/2017	1	SSM6J414TU,LF
SSM6J501NU,LF(T	12/31/2016	3/31/2017	1	SSM6J501NU,LF
SSM6J505NU,LF(T	12/31/2016	3/31/2017	1	SSM6J505NU,LF
SSM6N15AFU,LF(D	12/31/2016	3/31/2017	1	SSM6N15AFU,LF
SSM6N36FE,LM(T	12/31/2016	3/31/2017	1	SSM6N36FE,LM
SSM6N37CTD(TPL3)	12/31/2016	3/31/2017	3	SSM6N37FE,LM
SSM6N44FE,LM(T	12/31/2016	3/31/2017	1	SSM6N44FE,LM
SSM6N48FU,RF(D	12/31/2016	3/31/2017	1	SSM6N48FU,LF
SSM6N57NU,LF(T	12/31/2016	3/31/2017	1	SSM6N57NU,LF
SSM6N58NU,LF(T	12/31/2016	3/31/2017	1	SSM6N58NU,LF
SSM6P36FE,LM(T	12/31/2016	3/31/2017	1	SSM6P36FE,LM
TC4051BFT(EL,N,M)	12/31/2016	3/31/2017	1	TC4051BFT(EL,N)
TC4052BFT(EL,N,M)	12/31/2016	3/31/2017	1	TC4052BFT(EL,N)
TC4066BFT(EL,N,M)	12/31/2016	3/31/2017	1	TC4066BFT(EL,N)
TC4S584F(T5L,F,T)	12/31/2016	3/31/2017	1	TC4S584F,LF
TC4S66F(T5L,F,T)	12/31/2016	3/31/2017	1	TC4S66F,LF
TC4S69F(TE85L,F)	12/31/2016	3/31/2017	0	0
TC74HC4051AFT(EL,M	12/31/2016	3/31/2017	1	TC74HC4051AFT(EL)
TC74HC4052AFT(EL,M	12/31/2016	3/31/2017	1	TC74HC4052AFT(EL)
TC74HC4053AFT(EL,M	12/31/2016	3/31/2017	1	TC74HC4053AFT(EL)
TC74HC4066AFT(EL,M	12/31/2016	3/31/2017	1	TC74HC4066AFT(EL)
TC74LCX00FT(EL,M)	12/31/2016	3/31/2017	1	74LCX00FT(AE)
TC74LCX08FT(EL,M)	12/31/2016	3/31/2017	1	74LCX08FT(AE)
TC74LCX125FT(EK2,M	12/31/2016	3/31/2017	1	74LCX125FT(AE)
TC74LCX14FT-ELK(M)	12/31/2016	3/31/2017	1	74LCX14FT(AE)
TC74LCX157FT(EL,M)	12/31/2016	3/31/2017	1	74LCX157FT(AJ)
TC74LCX244FT(EL,M)	12/31/2016	3/31/2017	1	74LCX244FT(AE)
TC74LCX245FT(EL,M)	12/31/2016	3/31/2017	1	74LCX245FT(AE)
TC74LCX273FT-ELK(M	12/31/2016	3/31/2017	1	74LCX273FT(AJ)
TC74LCX373FT(EL,M)	12/31/2016	3/31/2017	1	74LCX373FT(AE)
TC74LCX540FT(EL,M)	12/31/2016	3/31/2017	1	74LCX540FT(AE)
TC74LCX540FT(ELK,M	12/31/2016	3/31/2017	1	74LCX540FT(AE)
TC74LCX540FT-ELK(M	12/31/2016	3/31/2017	1	74LCX540FT(AE)
TC74LCX541FT(ELK,M	12/31/2016	3/31/2017	1	74LCX541FT(AE)
TC74LCX541FT-ELK(M	12/31/2016	3/31/2017	1	74LCX541FT(AE)
TC74LCX573FT(EL,M)	12/31/2016	3/31/2017	1	74LCX573FT(AE)
TC74LCX574FT(EL,M)	12/31/2016	3/31/2017	1	74LCX574FT(AE)
TC74LVX02FT(EL,M)	12/31/2016	3/31/2017	1	74VHC02FT(BJ)
TC74LVX08FT(EL,M)	12/31/2016	3/31/2017	1	74VHC08FT(BE)
TC74VHC00FT(EL,M)	12/31/2016	3/31/2017	1	74VHC00FT(BE)
TC74VHC02FT(EL,M)	12/31/2016	3/31/2017	1	74VHC02FT(BJ)
TC74VHC08FT(EL,M)	12/31/2016	3/31/2017	1	74VHC08FT(BE)
TC74VHC125FT(EL,M)	12/31/2016	3/31/2017	1	74VHC125FT(BE)
TC74VHC138FT(EL,M)	12/31/2016	3/31/2017	1	74VHC138FT(BE)
TC74VHC139FT(EL,M)	12/31/2016	3/31/2017	1	74VHC139FT(BJ)

TC74VHC14FT(EK2,M)	12/31/2016	3/31/2017	1	74VHC14FT(BE)
TC74VHC14FT(EL,M)	12/31/2016	3/31/2017	1	74VHC14FT(BE)
TC74VHC165FT(EL,M)	12/31/2016	3/31/2017	1	74VHC165FT(BE)
TC74VHC245FT(EL,M)	12/31/2016	3/31/2017	1	74VHC245FT(BE)
TC74VHC32FT(EL,M)	12/31/2016	3/31/2017	1	74VHC32FT(BE)
TC74VHC373FT(EL,M)	12/31/2016	3/31/2017	1	74VHC373FT(BJ)
TC74VHC373FT-ELK(M)	12/31/2016	3/31/2017	1	74VHC373FT(BJ)
TC74VHC393FT(EL,M)	12/31/2016	3/31/2017	1	74VHC393FT(BJ)
TC74VHC393FT-ELK(M)	12/31/2016	3/31/2017	1	74VHC393FT(BJ)
TC74VHC540FT(EL,M)	12/31/2016	3/31/2017	1	74VHC540FT(BE)
TC74VHC541FT(EL,M)	12/31/2016	3/31/2017	1	74VHC541FT(BE)
TC74VHC541FT(ELK,M)	12/31/2016	3/31/2017	1	74VHC541FT(BE)
TC74VHC574FT(EL,M)	12/31/2016	3/31/2017	1	74VHC574FT(BE)
TC74VHC595FT(EL,M)	12/31/2016	3/31/2017	1	74VHC595FT(BE)
TC74VHC74FT(EL,M)	12/31/2016	3/31/2017	1	74VHC74FT(BE)
TC74VHC86FT(EL,M)	12/31/2016	3/31/2017	1	74VHC86FT(BE)
TC74VHCT574AFT(ELM)	12/31/2016	3/31/2017	1	74VHCT574AFT(BE)
TC75S101FU(TE85L,F)	12/31/2016	3/31/2017	4	TC75S51FU(TE85L,F)
TC75S59FE(TE85L,F)	12/31/2016	3/31/2017	3	TC75S59FU(TE85L,F)
TC7MB3125CFK-EL(M)	12/31/2016	3/31/2017	0	0
TC7MB3245CFT-EL(M)	12/31/2016	3/31/2017	0	0
TC7MB3257CFT-EL(M)	12/31/2016	3/31/2017	0	0
TC7MBL3245CFT(EL,M)	12/31/2016	3/31/2017	1	TC7MBL3245CFT(EL)
TC7MBL3253CFT(EL,M)	12/31/2016	3/31/2017	1	TC7MBL3253CFT(EL)
TC7MBL3257CFT(EL,M)	12/31/2016	3/31/2017	1	TC7MBL3257CFT(EL)
TC7S00F(T5L,F,T)	12/31/2016	3/31/2017	1	TC7S00F,LF
TC7S00FU(T5L,F,T)	12/31/2016	3/31/2017	1	TC7S00FU,LF
TC7S02F(T5L,F,T)	12/31/2016	3/31/2017	1	TC7S02F,LF
TC7S04F(T5L,F,T)	12/31/2016	3/31/2017	1	TC7S04F,LF
TC7S04FU(T5L,F,T)	12/31/2016	3/31/2017	1	TC7S04FU,LF
TC7S08F(T5L,F,T)	12/31/2016	3/31/2017	1	TC7S08F,LF
TC7S08FU(T5L,F,T)	12/31/2016	3/31/2017	1	TC7S08FU,LF
TC7S14F(T5L,F,T)	12/31/2016	3/31/2017	1	TC7S14F,LF
TC7S14FU(T5L,F,T)	12/31/2016	3/31/2017	1	TC7S14FU,LF
TC7S32F(T5L,F,T)	12/31/2016	3/31/2017	1	TC7S32F,LF
TC7S32FU(T5L,F,T)	12/31/2016	3/31/2017	1	TC7S32FU,LF
TC7S66F(T5L,F,T)	12/31/2016	3/31/2017	1	TC7S66F,LF
TC7S66FU(T5L,F,T)	12/31/2016	3/31/2017	1	TC7S66FU,LF
TC7SB66CFU,LF(T)	12/31/2016	3/31/2017	1	TC7SB66CFU,LF(CT)
TC7SET00FU(5L,JF,T)	12/31/2016	3/31/2017	1	TC7SET00FU,LJ(CT)
TC7SET04FU(5L,JF,T)	12/31/2016	3/31/2017	1	TC7SET04FU,LJ(CT)
TC7SET08F,LJ(T)	12/31/2016	3/31/2017	1	TC7SET08F,LJ(CT)
TC7SET08FU(5L,JF,T)	12/31/2016	3/31/2017	1	TC7SET08FU,LJ(CT)
TC7SET125FU(L,F,T)	12/31/2016	3/31/2017	1	TC7SET125FU,LJ(CT)
TC7SET126FU(5L,F,T)	12/31/2016	3/31/2017	1	TC7SET126FU,LJ(CT)
TC7SET14FU(T5L,F,T)	12/31/2016	3/31/2017	1	TC7SET14FU,LJ(CT)
TC7SET17FU,LF(T)	12/31/2016	3/31/2017	1	TC7SET17FU,LJ(CT)

TC7SET86FU(T5L,F,T	12/31/2016	3/31/2017	0	0
TC7SH00F,LJ(T	12/31/2016	3/31/2017	1	TC7SH00F,LJ(CT
TC7SH00FS(TPL3)	12/31/2016	3/31/2017	3	TC7SH00FU,LJ(CT
TC7SH00FU(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SH00FU,LJ(CT
TC7SH02FS(TPL3)	12/31/2016	3/31/2017	3	TC7SH02FU,LJ(CT
TC7SH02FU(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SH02FU,LJ(CT
TC7SH04FU(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SH04FU,LJ(CT
TC7SH08FU(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SH08FU,LJ(CT
TC7SH125F,LF(T	12/31/2016	3/31/2017	1	TC7SH125F,LJ(CT
TC7SH125FU(T5L,F,T	12/31/2016	3/31/2017	1	TC7SH125FU,LJ(CT
TC7SH126FU(T5L,F,T	12/31/2016	3/31/2017	1	TC7SH126FU,LJ(CT
TC7SH14FU(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SH14FU,LJ(CT
TC7SH17FU,LF(T	12/31/2016	3/31/2017	1	TC7SH17FU,LJ(CT
TC7SH32F,LJ(T	12/31/2016	3/31/2017	1	TC7SH32F,LJ(CT
TC7SH32FU(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SH32FU,LJ(CT
TC7SH86FU(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SH86FU,LJ(CT
TC7SU04F(T5L,F,T)	12/31/2016	3/31/2017	1	TC7SU04F,LF
TC7SU04FU(T5L,F,T)	12/31/2016	3/31/2017	1	TC7SU04FU,LF
TC7SZ00F(T5L,JF,T)	12/31/2016	3/31/2017	1	TC7SZ00F,LJ(CT
TC7SZ00FU(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SZ00FU,LJ(CT
TC7SZ02FU(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SZ02FU,LJ(CT
TC7SZ04F(T5L,JF,T)	12/31/2016	3/31/2017	1	TC7SZ04F,LJ(CT
TC7SZ04FU(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SZ04FU,LJ(CT
TC7SZ05F(T5L,JF,T)	12/31/2016	3/31/2017	1	TC7SZ05F,LJ(CT
TC7SZ05FU(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SZ05FU,LJ(CT
TC7SZ07F(T5L,JF,T)	12/31/2016	3/31/2017	1	TC7SZ07F,LJ(CT
TC7SZ07FE,LM(T	12/31/2016	3/31/2017	1	TC7SZ07FE,LJ(CT
TC7SZ07FU(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SZ07FU,LJ(CT
TC7SZ08F(T5L,JF,T)	12/31/2016	3/31/2017	1	TC7SZ08F,LJ(CT
TC7SZ08FE,LM(T	12/31/2016	3/31/2017	1	TC7SZ08FE,LJ(CT
TC7SZ08FU(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SZ08FU,LJ(CT
TC7SZ125F(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SZ125F,LJ(CT
TC7SZ125FU(T5L,JFT	12/31/2016	3/31/2017	1	TC7SZ125FU,LJ(CT
TC7SZ126FU(T5L,JFT	12/31/2016	3/31/2017	1	TC7SZ126FU,LJ(CT
TC7SZ14F(T5L,JF,T)	12/31/2016	3/31/2017	1	TC7SZ14F,LJ(CT
TC7SZ14FE,LM(T	12/31/2016	3/31/2017	1	TC7SZ14FE,LJ(CT
TC7SZ14FU(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SZ14FU,LJ(CT
TC7SZ17F(T5L,JF,T)	12/31/2016	3/31/2017	1	TC7SZ17F,LJ(CT
TC7SZ17FE,LM(T	12/31/2016	3/31/2017	1	TC7SZ17FE,LJ(CT
TC7SZ17FU(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SZ17FU,LJ(CT
TC7SZ32F(T5L,JF,T)	12/31/2016	3/31/2017	1	TC7SZ32F,LJ(CT
TC7SZ32FE,LM(T	12/31/2016	3/31/2017	1	TC7SZ32FE,LJ(CT
TC7SZ32FU(T5L,JF,T	12/31/2016	3/31/2017	1	TC7SZ32FU,LJ(CT
TC7SZU04FU(T5L,JFT	12/31/2016	3/31/2017	1	TC7SZU04FU,LJ(CT
TC7W34FK(TE85L,F)	12/31/2016	3/31/2017	1	TC7WH34FK,LJ(CT
TC7W34FU(TE12L,F)	12/31/2016	3/31/2017	1	TC7WH34FK,LJ(CT
TC7WH00FU(TE12L,F)	12/31/2016	3/31/2017	1	TC7WH00FU,LJ(CT

TC7WH04FK(TE85L,F)	12/31/2016	3/31/2017	1	TC7WH04FK,LJ(CT
TC7WH04FU(TE12L,F)	12/31/2016	3/31/2017	1	TC7WH04FU,LJ(CT
TC7WH123FK(TE85L,F)	12/31/2016	3/31/2017	0	0
TC7WH123FU(TE12L,F)	12/31/2016	3/31/2017	0	0
TC7WH125FK(TE85L,F)	12/31/2016	3/31/2017	1	TC7WH125FK
TC7WH14FU(TE12L,F)	12/31/2016	3/31/2017	1	TC7WH14FU,LJ(CT
TC7WH157FU(TE12L,F)	12/31/2016	3/31/2017	1	TC7WH157FU,LJ(CT
TC7WH241FU(TE12L,F)	12/31/2016	3/31/2017	4	TC7WH125FU
TC7WH34FK(TE85L,F)	12/31/2016	3/31/2017	1	TC7WH34FK,LJ(CT
TC7WH74FK(TE85L,F)	12/31/2016	3/31/2017	1	TC7WH74FK,LJ(CT
TC7WH74FU(TE12L,F)	12/31/2016	3/31/2017	1	TC7WH74FU,LJ(CT
TC7WT74FU(TE12L,F)	12/31/2016	3/31/2017	0	0
TCR2EE10,LM(T	12/31/2016	3/31/2017	1	TCR2EE10,LM(CT
TCR2EE11,LM(T	12/31/2016	3/31/2017	1	TCR2EE11,LM(CT
TCR2EE115,LM(T	12/31/2016	3/31/2017	1	TCR2EE115,LM(CT
TCR2EE12,LM(T	12/31/2016	3/31/2017	1	TCR2EE12,LM(CT
TCR2EE13,LM(T	12/31/2016	3/31/2017	1	TCR2EE13,LM(CT
TCR2EE135,LM(T	12/31/2016	3/31/2017	1	TCR2EE135,LM(CT
TCR2EE15,LM(T	12/31/2016	3/31/2017	1	TCR2EE15,LM(CT
TCR2EE18,LM(T	12/31/2016	3/31/2017	1	TCR2EE18,LM(CT
TCR2EE25,LM(T	12/31/2016	3/31/2017	1	TCR2EE25,LM(CT
TCR2EE28,LM(T	12/31/2016	3/31/2017	1	TCR2EE28,LM(CT
TCR2EE30,LM(T	12/31/2016	3/31/2017	1	TCR2EE30,LM(CT
TCR2EE33,LM(T	12/31/2016	3/31/2017	1	TCR2EE33,LM(CT
TCR2EE36,LM(T	12/31/2016	3/31/2017	1	TCR2EE36,LM(CT
TCR2EE50,LM(T	12/31/2016	3/31/2017	1	TCR2EE50,LM(CT
TCR2EF10,LM(T	12/31/2016	3/31/2017	1	TCR2EF10,LM(CT
TCR2EF11,LM(T	12/31/2016	3/31/2017	1	TCR2EF11,LM(CT
TCR2EF12,LM(T	12/31/2016	3/31/2017	1	TCR2EF12,LM(CT
TCR2EF13,LM(T	12/31/2016	3/31/2017	1	TCR2EF13,LM(CT
TCR2EF15,LM(T	12/31/2016	3/31/2017	1	TCR2EF15,LM(CT
TCR2EF18,LM(T	12/31/2016	3/31/2017	1	TCR2EF18,LM(CT
TCR2EF19,LM(T	12/31/2016	3/31/2017	1	TCR2EF19,LM(CT
TCR2EF25,LM(T	12/31/2016	3/31/2017	1	TCR2EF25,LM(CT
TCR2EF27,LM(T	12/31/2016	3/31/2017	1	TCR2EF27,LM(CT
TCR2EF28,LM(T	12/31/2016	3/31/2017	1	TCR2EF28,LM(CT
TCR2EF30,LM(T	12/31/2016	3/31/2017	1	TCR2EF30,LM(CT
TCR2EF31,LM(T	12/31/2016	3/31/2017	1	TCR2EF31,LM(CT
TCR2EF33,LM(T	12/31/2016	3/31/2017	1	TCR2EF33,LM(CT
TCR2EF40,LM(T	12/31/2016	3/31/2017	1	TCR2EF40,LM(CT
TCR2EF41,LM(T	12/31/2016	3/31/2017	1	TCR2EF41,LM(CT

