



Obsolete Cross Reference Guide



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Obsolete Catalog #	Recommended Substitution	Obsolete Catalog #	Recommended Substitution
Magnetic			
247	247TCP	304-1758-800	554LTCP
820	546BTCP	304-1758-805	554LTCP
4100	4100P	304-1758-865	554LTCP
4104	4104P	304-2131-805	691LTCP
4110	4110P	304-2611-805	930KTCP
4130	4130P	304-2618-805	937KTCP
4134	4134P	304-2798-805	827SLHTCP
4138	4138P	304-3041-5	200H2
4204	4204P	304-3701-805	446LSLHTCP
4210	4210P	304-3708-805	443LSLHTCP
4216	4216P	304-3791-806	806SLHTCP
4220	4220P	304-4701-805	446LSLHTCP
4224	4224P	304-4708-805	443LSLHTCP
4230	4230P	304-4721-805	480SLHTCP
200CS	200CSP	304-4728-805	487SLHTCP
200CSWS	200CSP	304-4791-805	806SLHTCP
200F1	200H2	304-4791-806	806SLHTCP
200H2P	200H2	304-4798-800	827SLHTCP
201C	4111P	304-4798-805	827SLHTCP
201F1	4111F1P	304-4951-805	412LSLHTCP
202CXTCP	202BTCP	304-4958-805	458LSLHTCP
202SBTCP	202BTCP	304-7703-800	592LTCP
202STCP	202SBTCP	304-7703-805	592LTCP
205TCP	446LSLHTCP	304-7951-805	412LSLHTCP
215LTCP	412LSLHTCP	304-7951-806	412LSLHTCP
220B	202BTCP	304-7958-805	458LSLHTCP
234-3021-5	202BTCP	309-0702-65	540LTCP
234-30410	200H2	310LTCP	M132R120
254-0891-860	539TCP	317LTCP	M132R120
254-1561-860	565LTCP	327LTCP	M232H277
254-1671-860	483LHTCP	333H2	547RSTCP
254-1688-860	628LHTCP	340H2	No Replacement
254-1751-860	564LTCP	345LTCP	No Replacement
254-1758-860	554LTCP	4100PBE	No Replacement
257-03010	WPR481LH	4100PBES	No Replacement
257-04000	WPR480XLHR	4101C	No Replacement
257-04020	WPR481LH	4101F1	No Replacement
257-04030	WPR490XLH	4101F1P	4101F2P
300-0721-805	480SLHTCP	4101F2	4101F2P
300-0728-805	487SLHTCP	4101P	No Replacement
300-0931-800	960VLHTCP	4101PBE	No Replacement
300-1151-705	213TCP	4101PBES	No Replacement
300-1158-805	532BRTCP	4102P	No Replacement
300-1281-705	822BRTCP	4102PBE	No Replacement
300-1281-805	822BRTCP	4102PBES	No Replacement
300-1288-800	828BRTCP	4104PBE	No Replacement
300-1291-600	446LSLHTCP	4104PBES	No Replacement
300-2131-800	691LTCP	4105C	4105P
300-2611-705	937KTCP	4105F1	No Replacement
300-2611-805	937KTCP	4105F1P	No Replacement
300-2798-5	827SLHTCP	4105F2P	4105F2
300-4611-805	930KTCP	4105H2P	CF79H2P
300-4618-805	930KTCP	4105P	No Replacement
300-4728-805	487SLHTCP	4105PBE	No Replacement
300-4791-805	806SLHTCP	4105PBES	No Replacement
300-7703-800	592LTCP	4106PBE	No Replacement
300-7728-5	487SLHTCP	4106PBES	No Replacement
300-7951-705	412LSLHTCP	410LTCP	No Replacement
300-7951-800	412LSLHTCP	4110AP	No Replacement
300H2	No Replacement	4110P	No Replacement
302-0881-5	205TCP	4110PBE	No Replacement
304-0721-805	480SLHTCP	4110PBES	No Replacement
304-0728-805	480SLHTCP	4111AP	4111P
304-0881-805	205TCP	4111C	4111P
304-1151-805	213TCP	4111F1	4111F1P
304-1158-805	532BRTCP	4111F1P	CF1320H2P
304-1281-805	822BRTCP	4111F1RP	No Replacement
304-1288-805	828BRTCP	4111F2	CF1320H2P
304-1291-600	446LSLHTCP	4111F2P	CF1320H2P
304-1291-605	446LSLHTCP	4111H2	No Replacement
304-1291-800	446LSLHTCP	4111P	No Replacement
304-1291-805	446LSLHTCP	4111PBES	No Replacement
304-1298-800	443LSLHTCP	4112PBE	4112PBES
304-1298-805	443LSLHTCP	4112PBES	No Replacement
304-1401-870	W589DTCP	4113F1P	No Replacement
304-1458-805	588LTCP	4113F2P	CF1320H2P
304-1561-800	565LTCP	4113PBE	No Replacement
304-1561-805	565LTCP	4113PBES	No Replacement
304-1671-800	483LHTCP	4114PBE	No Replacement
304-1671-805	483LHTCP	4114PBES	No Replacement
304-1671-865	483LHTCP	4115P	No Replacement
304-1681-800	620LHTCP	4115PBE	No Replacement
304-1681-805	620LHTCP	4115PBES	No Replacement
304-1681-865	620LHTCP	4116P	No Replacement
304-1688-800	628LHTCP	4116PBE	No Replacement
304-1688-805	628LHTCP	4116PBES	No Replacement
304-1751-805	564LTCP	4118P	No Replacement

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4118PBE	No Replacement	4218PBE	No Replacement
4118PBES	No Replacement	4218PBES	No Replacement
4119P	No Replacement	4219C	No Replacement
4119PBE	No Replacement	4219F1	No Replacement
4119PBES	No Replacement	4219F1P	No Replacement
411LRTCP	No Replacement	4219F2	No Replacement
4120P	No Replacement	4219F2P	No Replacement
4120PBES	No Replacement	4219PBE	No Replacement
4122RP	No Replacement	4219PBES	No Replacement
4122RPBE	No Replacement	4222PBE	No Replacement
4123P	No Replacement	4222PBES	No Replacement
4123PBE	No Replacement	4223C	No Replacement
4123PBES	No Replacement	4223F1	No Replacement
4123RP	No Replacement	4223F1P	No Replacement
4123RPBE	No Replacement	4223F2	No Replacement
4124P	No Replacement	4223F2P	No Replacement
4124PBE	No Replacement	4223PBES	No Replacement
4124PBES	No Replacement	4225P	No Replacement
4124RPBE	No Replacement	4225PBE	4226PBES
4124RPBES	No Replacement	4225PBES	4226PBES
4126P	No Replacement	4226PBE	4226PBES
4126PBE	No Replacement	4230P	No Replacement
4126PBES	No Replacement	4230PBE	No Replacement
4128PBE	4128PBES	4230PBES	No Replacement
412LSLHOP	412LSLHTCP	4231C	No Replacement
4131C	No Replacement	4231F1	No Replacement
4131F1	No Replacement	4231F1P	No Replacement
4131F1P	No Replacement	4231F2	No Replacement
4131F2	No Replacement	4231F2P	No Replacement
4131F2P	No Replacement	4231P	No Replacement
4131PBE	No Replacement	4231PBE	No Replacement
4131PBES	No Replacement	4231PBES	No Replacement
4131SP	No Replacement	4240P	No Replacement
4134PBE	No Replacement	4240PBE	No Replacement
4134PBES	No Replacement	4245P	No Replacement
4135C	No Replacement	4246P	No Replacement
4135F1	No Replacement	4249P	No Replacement
4135F1P	No Replacement	4251P	No Replacement
4135F2	No Replacement	4252P	No Replacement
4135F2P	No Replacement	4253P	No Replacement
4135P	No Replacement	4254P	No Replacement
4135PBES	No Replacement	4255P	No Replacement
4138PBE	No Replacement	427LTCP	443LSLHTCP
4138PBES	No Replacement	4310P	No Replacement
4139C	No Replacement	4310PBE	No Replacement
4139F1	4139F2	4310PBES	No Replacement
4139F1P	4139F2	4314P	No Replacement
4139P	No Replacement	4314PBE	No Replacement
4139PBE	No Replacement	4314PBES	No Replacement
4139PBES	No Replacement	4320P	No Replacement
4140P	No Replacement	4320PBE	No Replacement
4140PBE	No Replacement	4320PBES	No Replacement
4145P	No Replacement	4322P	No Replacement
4146P	No Replacement	4322PBE	No Replacement
4150P	No Replacement	4324P	No Replacement
4151P	No Replacement	4324PBE	No Replacement
4152P	No Replacement	4328P	No Replacement
4155P	No Replacement	4328PBE	No Replacement
417LTCP	No Replacement	4351P	No Replacement
4204PBES	No Replacement	4352P	No Replacement
4205C	No Replacement	437L	No Replacement
4205F1	4205F2	437LTC	No Replacement
4205F1P	4205F2	437LTCP	No Replacement
4205PBE	No Replacement	438LTCP	No Replacement
4205PBES	No Replacement	440LOP	446LSLHTCP
4206P	No Replacement	440LRQP	No Replacement
4206PBES	No Replacement	443LRVLHTCPG	443LSLHTCP
420LTCP	No Replacement	443LSLHEQP	443LSLHTCP
4210P	No Replacement	443LSLHQP	443LSLHTCP
4210PBES	No Replacement	445LHWSTCP	445RSWSTCP
4211C	No Replacement	445RSTCP	No Replacement
4211F1	No Replacement	446L2LTCP	446LSLHTCP
4211F1P	No Replacement	446LLHTCP	446LSLHTCP
4211F2	No Replacement	446LREQP	446LSLHTCP
4211F2P	No Replacement	446LROP	446LSLHTCP
4211PBES	No Replacement	446LRTCP	No Replacement
4214PBE	No Replacement	446LSLHEQP	446LSLHTCP
4215P	No Replacement	446LSLHQP	446LSLHTCP
4215PBE	No Replacement	446LSLHTCPWS	446LSLHTCP
4215PBES	No Replacement	447CRTCP	447LRVLHTCP
4216P	No Replacement	447CTCP	No Replacement
4216PBE	No Replacement	447LRVLHTCPG	447LRVLHTCP
4216PBES	No Replacement	449LRLHWSTCP	No Replacement
4217C	No Replacement	449LRTCP	No Replacement
4217F1	No Replacement	449LRWSTCP	No Replacement
4217F1P	No Replacement	449LTCP	No Replacement
4217F2	No Replacement	449LWSTCP	No Replacement
4217F2P	No Replacement		

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4217P	No Replacement	709TCP	No Replacement
4217PBE	No Replacement	720LRTCP	No Replacement
4217PBES	No Replacement	723LSLHTCP	No Replacement
4218P	No Replacement	725TCP	No Replacement
458LSLHTCP	No Replacement	726LVLHWSTCP	No Replacement
468LTCP	No Replacement	727LTCP	No Replacement
474LWSTCP	No Replacement	730LRSLHQP	No Replacement
474RSWSTCP	No Replacement	730LRSLHTCP	No Replacement
479LHTCP	No Replacement	730LSLHTCP	No Replacement
480VLHTCP	480XLHTCP	731LTCP	No Replacement
482LHTCP	No Replacement	732LTCP	No Replacement
483LHTCP	481LHTCP	736LTCP	No Replacement
487XLHTCP	487SLHTCP	737LRSLHTCP	No Replacement
491XLHTCP	No Replacement	737LSLHTCP	No Replacement
492XLH	492XLHTC	741LSLHTCP	No Replacement
498LHTCP	490XLHTCP	742LSLHTCP	M232SR277C
502ATCP	No Replacement	742LTSTCP	M232SR277C
522LTC	No Replacement	746LTC	No Replacement
524LTC	No Replacement	748LSLHTCP	M132R120C
531TCP	No Replacement	749LSLHTCP	M232SR120C
532BREQP	532BRTCP	749LSTCP	M232SR120C
532BRQP	532BRTCP	754L	No Replacement
539SLTCP	No Replacement	754LTCP	No Replacement
539TCP	No Replacement	755LSLHTCP	No Replacement
540LEQP	540LTCP	757SLHTC	No Replacement
542L	No Replacement	757XLHTC	No Replacement
542LTC	No Replacement	764LTC	No Replacement
542LTCP	No Replacement	778XLHTC	No Replacement
544L	544LTC	789SLHTCP	No Replacement
547RSTCP	547RSWSTCP	798XLHQP	No Replacement
548F1	No Replacement	798XLHTCP	No Replacement
548F2	No Replacement	799XLHTC	No Replacement
548H2	No Replacement	799XLHTCP	No Replacement
549AP	No Replacement	801TCP	No Replacement
549H2	No Replacement	806ATCP	806SLHTCP
550LTCP	No Replacement	806SLHQP	806SLHTCP
554LTCP	No Replacement	810TCP	No Replacement
562LTCP	No Replacement	811TCP	No Replacement
565LTCP	No Replacement	822BRQP	822BRTCP
573LSLHTCP	No Replacement	827BRTCP	827SLHTCP
573LTCP	No Replacement	827SLHEQP	827SLHTCP
588LSLHTCP	No Replacement	827SLHQP	827SLHTCP
588LTCP	No Replacement	836BRTCP	No Replacement
592LTCP	540LTCP	843SLTCP	No Replacement
597LTCP	No Replacement	843TCP	No Replacement
620LHTCP	490XLHTCP	847TCP	No Replacement
662LOP	No Replacement	871SLTCP	No Replacement
662LTC	No Replacement	881BRTCP	No Replacement
662LTCP	No Replacement	897BRTC	No Replacement
673L	No Replacement	897SLHEQP	No Replacement
678ATCP	No Replacement	897SLHTC	No Replacement
679LTCP	No Replacement	930VLHTCP	930KTCP
691LTCP	No Replacement	936XTCP	No Replacement
692LSLHTC	No Replacement	938LHTCP	937KTCP
692LTC	No Replacement	944LHTCP	No Replacement
697LTCP	No Replacement	949LHTCP	No Replacement
698LSLHTC	No Replacement	951STCP	No Replacement
698LTC	No Replacement	952TCP	No Replacement
701LTCP	No Replacement	955CFL	No Replacement
703LTCP	No Replacement	957STCP	No Replacement
707TCP	No Replacement	960VLHTCP	No Replacement
708TCP	No Replacement		

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CFL			
7811042	C218UNVSE	C213UNVBES	C213UNVMES
7811043	C218UNVSE	C213UNVSE	C213UNVME
7811057	No Direct Cross	C218/347BE	C218/347ME
7811105	C213UNVSE	C218/347BES	C218/347MES
7811238	ES1238E	C218/347SE	C218/347ME
7811350	C242/347BE	C218UNVBE	C218UNVME
7811364	C2642UNV	C218UNVBES	C218UNVMES
7811385	C2642UNVBE	C218UNVSE	C218UNVME
7811541	C240PUNVHP-B	C2240UNVBES	C2642UNVBES
7811602	C242/347SE	C2240UNVSE	C2642UNVSE
7811748	C2642/347SE	C226SR120	C2642UNVSE
7811749	C218/347SE	C226SR120BE	C2642UNVME
7811754	C213/347SE	C226SR120BES	C2642UNVMES
7811756	C218/347SE	C226SR277	C2642UNVME
7811764	C242/347SE	C226SR277BE	C2642UNVME
7812504	C240PUNVHP-B	C226SR277BES	C2642UNVMES
7812506	No Direct Cross	C240I120RH	No Direct Cross
4114P	CBT213L-120S	C240I277RH	No Direct Cross
4122RPBES	CBT218L120BSC	C240PUNV	C240PUNVHP-B
4123PLC	CBT126L-120S	C240PUNVHP-B	No Direct Cross
4128P	C2642UNVSE	C240SI120RH	No Direct Cross
4154P	C240PUNVHP-B	C240SI277RH	No Direct Cross
4240PBES	C2642UNVME	C242/347BE	C242/347ME
7811642D	CT218UNVSE	C242/347BES	C242/347MES
7811643D	CT213UNVSE	C242/347SE	C242/347ME
7811646C	C2642UNVBE	C242UNVBE	C242UNVME
7811646D	C2642UNVSE	C242UNVBES	C242UNVMES
7811647C	C2642UNVBE	C242UNVSE	C242UNVME
7811647D	C2642UNVSE	C2642/347BE	C2642/347ME
7811648C	C218UNVBE	C2642/347BES	C2642/347MES
7811648D	C218UNVSE	C2642/347SE	C2642/347ME
7811649D	C213UNVSE	C2642347BE	C2642/347ME
7811650C	C2642UNVBE	C2642UNVBE	C2642UNVME
7811650D	C2642UNVSE	C2642UNVBES	C2642UNVMES
7812000C	C2642UNVBE	C2642UNVHTBE	C2642UNVME
7812000D-NP	C2642UNVSE	C2642UNVHTBES	C2642UNVMES
7812000D-OSRM	No Direct Cross	C2642UNVHTSE	C2642UNVME
7812001C	C213UNVBE	C2642UNVSE	C2642UNVME
7812001CM	C213UNVBE	C340I120RH	No Direct Cross
7812001CMP	C213UNVBES	C340I277RH	No Direct Cross
7812001CP	C213UNVBES	C340SI120RH	No Direct Cross
7812001D	No Direct Cross	C340SI277RH	No Direct Cross
7812002C	C218UNVBE	CBC-113 DE	C213UNVSE
7812002CM	C218UNVBE	CBC-113/120	C213UNVSE
7812002CMP	C218UNVBES	CBC-113/277	C213UNVSE
7812002CP	C218UNVBES	CBC-118 DE	C218UNVSE
7812002D	C218UNVSE	CBC-118/120	C218UNVSE
7812002D-NP	C218UNVSE	CBC-118/277	C218UNVSE
7812002D-OSRM	C218UNVME	CBC-126 DE	C2642UNVSE
7812003C	C2642UNVME	CBC-126/120	C2642UNVSE
7812003D	ES2003D	CBC-126/277	C2642UNVSE
7812003D-OSRM	ES2003D	CBC-132/120	C2642UNVSE
7812004C	C2642UNVME	CBC-132/120BE	C2642UNVBE
7812004D	C2642UNVME	CBC-132/120SE	C2642UNVSE
7812005C	C2642UNVME	CBC-132/277	C2642UNVSE
7812005CM	C2642UNVME	CBC-132/277BE	C2642UNVBE
7812005CP	C2642UNVMES	CBC-132/277SE	C2642UNVSE
7812005D	C2642UNVME	CBC-213	C213UNVSE
7813009H	C242UNVME	CBC-213/120	C213UNVSE
7813020G	No Direct Cross	CBC-213/120BE	C213UNVBE
B240I277HP	No Direct Cross/B234SR277M	CBC-213/120SE	C213UNVSE
BBT/118220/240V 1BW	C218UNVME	CBC-213/277BE	C213UNVBE
BBT1180VP	C218UNVME	CBC-213/277SE	C213UNVSE
BBT-1180VP	C218UNVME	CBC-218/120	C218UNVSE
BBT-136	C242UNVME	CBC-218/120BE	C218UNVBE
BBT-1360VP	C242UNVME	CBC-218/120SE	C218UNVSE
BBT-136-OVP	C242UNVME	CBC-218/277	C218UNVBE
BBT-2180VP	C218UNVME	CBC-218/277SE	C218UNVSE
BBT-236	C242UNVME	CBC-226/120	C2642UNVSE
BBT-2360VP	C242UNVME	CBC-226/120BE	C2642UNVBE
C132R120	C2642UNVME	CBC-226/120SE	C2642UNVSE
C132R120BE	C2642UNVME	CBC-226/277	C2642UNVSE
C132R120BES	C2642UNVMES	CBC-226/277BE	C2642UNVBE
C132R277	C2642UNVME	CBC-226/277SE	C2642UNVSE
C132R277BE	C2642UNVME	CBL-118/120	CT218UNVSE
C132R277BES	C2642UNVMES	CBL-118/277	CT218UNVSE
C138PCB	No Direct Cross	CBL-124/120	C2642UNVSE
C142R120	C2642UNVME	CBL-124/277	C2642UNVSE
C142R120BE	C2642UNVME	CBL-218/120	CT218UNVSE
C142R120BES	C2642UNVMES	CBL-218/277	CT218UNVSE
C142R277	C2642UNVME	CBL-224/120	C2642UNVSE
C142R277BE	C2642UNVME	CBL-224/277	C2642UNVSE
C142R277BES	C2642UNVMES	CT213UNVBE	CT213UNVME
C213/347BE	C213/347ME	CT213UNVBES	CT213UNVMES
C213/347BES	C213/347MES	CT213UNVSE	CT213UNVME
C213/347SE	C213/347ME	ES1057E	No Direct Cross
C213UNVBE	C213UNVME	ES1057E-CPR	No Direct Cross

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ES1082E	C2642UNVSE	ES2002CP	C218UNVBE
ES1238E	C2642UNVSE	ES2002D	C218UNVSE
ES1350C	C2642/347BE	ES2002DNP	C218UNVSE
ES1351C	C213/347BE	ES2003C	C2642UNVBE
ES1352C	C218/347BE	ES2004C	C2642UNVBE
ES1353C	C2642/347BE	ES2004D	C2642UNVSE
ES1398C	C218/347BE	ES2005C	C2642UNVBE
ES1592D	C2642/347SE	ES2005CP	C2642UNVBES
ES1602D	C2642/347SE	ES2205D	C2642UNVSE
ES1642D	CT218UNVSE	ES2506F	No Direct Cross
ES1643D	CT213UNVSE	ES3012G	7813012G
ES1647C	C2642UNVBE	ES3020G	No Direct Cross
ES1647D	C2642UNVSE	ES4520C	C2642UNVBE
ES1648C	C218UNVBE	ES4520D	C2642UNVSE
ES1648D	C218UNVSE	GLT132-120I	C213UNVBE
ES1649D	C213UNVSE	GLT132-277I	C213UNVBE
ES1650C	C2642UNVBE	GLT182-120I	C218UNVBE
ES1650D	C2642UNVSE	GLT182-277I	C218UNVBE
ES1748D	C2642/347SE	GLT262-120I	C2642UNVBE
ES1749D	C218/347SE	GLT262-277I	C2642UNVBE
ES1754D	C213/347SE	MAY & CHRISTE	C218UNVSE
ES1756D	C218/347SE	OSI51719	C213/347BE
ES1764D	C242/347SE	OSI51721	C2642/347BE
ES2000C	C2642UNVBE	OSI51722	C242/347BE
ES2000DNP	C2642UNVSE	OSI51724	C218/347BE
ES2001C	C213UNVBE	OSI51749	C213/347SE
ES2001CM	C213UNVBE	OSI5175	C218/347SE
ES2001CMP	C213UNVBES	OSI51751	C2642/347SE
ES2002C	C218UNVBE	OSI51752	C242/347SE
ES2002CM	C218UNVBE	SLI2642UNVSE	C2642UNVSE
ES2002CMP	C218UNVBES		

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HID			

103016	Banned by DOE	113099	M1500MLTAC5M
103017	Banned by DOE	114092	1110566CTC
103020	Banned by DOE	123012	S250MLTAC4M
103021	Banned by DOE	123017	S400MLTAC5M
103024	Banned by DOE	123021	S400MLTAC5M
103025	Banned by DOE	123033	S40048TAC5M
103027	Banned by DOE	123041	S1000MLTAC5M
103028	Banned by DOE	123045	S1000MLTAC5M
103029	Banned by DOE	123049	S1000MLTAC5M
103030	Banned by DOE	123057	S100048TAC5M
103031	Banned by DOE	123097	S1000MLTAC5M
103032	Banned by DOE	203033	Banned by DOE
103033	Banned by DOE	1030110	Banned by DOE
103037	Banned by DOE	1030223	Banned by DOE
103041	Banned by DOE	1030229	Banned by DOE
103049	Banned by DOE	1030230	Banned by DOE
103057	Banned by DOE	1030245	Banned by DOE
103072	Banned by DOE	1030246	Banned by DOE
103073	Banned by DOE	1030247	Banned by DOE
103091	Banned by DOE	1031111	Banned by DOE
103092	Banned by DOE	1032271	Banned by DOE
103093	Banned by DOE	1032311	Banned by DOE
103097	Banned by DOE	1032321	Banned by DOE
103316	Banned by DOE	1032331	Banned by DOE
103317	Banned by DOE	1032571	Banned by DOE
113012	M250MLTAC3M	1035231	Banned by DOE
113016	M250MLTAC3M	1130121	M175MLTAC3M
113017	M400MLTAC4M	1130122	M250MLTAC4M
113020	M250MLTAC3M	1130123	M400MLTAC4M
113024	M250MLTAC3M	1130127	M1000MLTAC5M
113025	M400MLTAC4M	1130129	M1500MLTAC5M
113028	M250TRIAC4M	1130177	M150MLTLC3D
113031	M17548TAC3M	1130246	M250MLTAC3M
113032	M25048TAC3M	1130598	M1000TRIAC5M
113033	M40048TAC4M	1130599	M1500TRIAC5M
113037	M1000MLTAC5M	1130605	M175TRIAC30
113041	M1000MLTAC5M	1130622	P350MLTAC4M
113045	M1000MLTAC5M	1130827	P320MLTAC40
113049	M1000MLTAC5M	1130829	P400MLTAC4L
113053	M1000TRIAC5M	1131018	M100MLTLC3M
113057	M100048TAC5M	1131022	M100MLTLC3M
113059	M1500MLTAC5M	1131026	M100TRILC3M
113061	M1500MLTAC5M	1131051	M50TRILC3M
113063	M1500MLTAC5M	1131090	M100MLTLC3M
113065	M1500MLTAC5M	1131095	M50MLTLC3M
113069	M150048TAC5M	1132281	M250TRIAC4M
113073	M400MLTAC4M	1132311	M17548TAC3M
113081	M1000MLTAC5M	1132321	M25048TAC4M
113092	M250MLTAC3M	1132531	M1000TRIAC5M
113093	M400MLTAC4M	1132571	M100048TAC5M
113097	M1000MLTAC5M	1133256	M35MLTLC3M

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1135133	M250230AC3M	12311148	S7048TLC3M
1135229	M175230AC3M	12311158	S150MLTLC3M
1135230	M250230AC3M	12311160	S15048TLC3M
1135231	M400230AC4M	12311179	S200MLTAC4M
1135234	M1500230AC5M	12315150	S70230LC3M
1230122	S250MLTAC4M	12315221	S70230LC3M
1230123	S400MLTAC5M	12315225	S150MLTLC3M
1230127	S1000MLTAC5M	12331838	S200MLTAC4M
1230177	S150MLTLC3M	12410165	12210241CTC
1230179	S200MLTAC4M	12410165	12210241CTC
1230180	S200MLTAC4M	14320184	No Direct Cross
1230183	S200MLTAC4M	14320196	No Direct Cross
1230184	S200MLTAC4M	1232171020	S400MLTAC4M
1230185	S200TRAC4M	010-6379-083T	M100048TAC5M
1230190	S200MLTAC4M	010-6387-083T	S1000MLTAC5M
1230527	S600MLTAC5M	1010236RCTC	Banned by DOE
1230598	S1000TRAC5M	1010238CTC	Banned by DOE
1231010	S100MLTLC3M	1010238CY	Banned by DOE
1231014	S100MLTLC3M	1010239RCTC	Banned by DOE
1231018	S100MLTLC3M	1010245CTC	Banned by DOE
1231022	S100MLTLC3M	1010246CTC	Banned by DOE
1231035	S50MLTLC3M	1010246CY	Banned by DOE
1231043	S50MLTLC3M	1010247SCTC	Banned by DOE
1231047	S50MLTLC3M	1010247SCY	Banned by DOE
1231090	S100MLTLC3M	103010R	Banned by DOE
1231095	S50MLTLC3M	103010RA	Banned by DOE
1231114	S100MLTLC3M	1030110Y	Banned by DOE
1231130	S10048TLC3M	103011R	Banned by DOE
1233516	S600MLTAC5M	103011T	Banned by DOE
1235233	S1000230AC5M	103012R	Banned by DOE
1238168	No Direct Cross	103013R	Banned by DOE
11310120	M100MLTLC3M	103014R	Banned by DOE
11310167	M150MLTLC3D	103014RA	Banned by DOE
11310168	M150MLTLC3D	103015R	Banned by DOE
11310169	M150MLTLC3D	103015S	Banned by DOE
11310177	M150MLTLC3D	103018R	Banned by DOE
11310236	M50MLTLC3M	103018RA	Banned by DOE
11310239	M100MLTLC3M	103019R	Banned by DOE
11310242	M150MLTLC3D	103019S	Banned by DOE
11310268	M70MLTLC3D	103022R	Banned by DOE
11310269	M70MLTLC3D	1030239R	Banned by DOE
11310271	M70MLTLC3D	103023R	Banned by DOE
11310277	M70MLTLC3D	103026R	Banned by DOE
11310281	M70MLTLC3D	103026RA	Banned by DOE
11310482	M100MLTLC3D	103026RY	Banned by DOE
11310486	M100TRILC3M	103027Y	Banned by DOE
11310490	M100MLTLC3D	103028Y	Banned by DOE
11310494	M100MLTLC3D	103029Y	Banned by DOE
11310497	M70MLTLC3M	103030A	Banned by DOE
11310498	M70MLTLC3M	103045R	Banned by DOE
11310500	M70MLTLC3M	103070R	Banned by DOE
11310502	M70TRILC3M	103071R	Banned by DOE
11310506	M70MLTLC3M	103081R	Banned by DOE
11310510	M70MLTLC3M	103090R	Banned by DOE
11310531	M150MLTLC3M	103090RA	Banned by DOE
11310539	M150MLTLC3M	103091A	Banned by DOE
11310543	M150MLTLC3M	103091R	Banned by DOE
11310580	M70TRILC3M	103092A	Banned by DOE
11310584	M100TRILC3M	1031111N	Banned by DOE
11310589	M150TRILC3M	1031111S	Banned by DOE
11310590	M150TRILC3M	1031111U	Banned by DOE
11310604	M70TRILC3M	1032261R	Banned by DOE
11310605	M175TRAC30	1032261RY	Banned by DOE
11312261	M100TRILC3M	1032271Y	Banned by DOE
12310120	S100MLTLC3M	1032301A	Banned by DOE
12310142	S70MLTLC3M	1033113S	Banned by DOE
12310143	S70MLTLC3M	103315S	Banned by DOE
12310144	S70MLTLC3M	103315SN	Banned by DOE
12310145	S70MLTLC3M	103316S	Banned by DOE
12310146	S70MLTLC3M	103317S	Banned by DOE
12310153	S70MLTLC3M	103323S	Banned by DOE
12310154	S150MLTLC3M	103324S	Banned by DOE
12310155	S150MLTLC3M	1038113S	Banned by DOE
12310156	S150MLTLC3M	1038122S	Banned by DOE
12310157	S150MLTLC3M	1038123S	Banned by DOE
12310158	S150MLTLC3M	1038130S	Banned by DOE
12310165	S150MLTLC3M	103825S	Banned by DOE
12310221	S70MLTLC3M	1110245CTC	1110245SCTC
12310223	S100MLTLC3M	1110246CY	1110246CTC
12310236	S50MLTLC3M	1110247RCTC	1110247SCTC
12310237	S70MLTLC3M	1111246CY	1111246CTC
12310239	S100MLTLC3M	1111247CTC	1111247SCTC
12310241	S150MLTLC3M	1111247CY	1111247SCTC
12310579	S70TRILC3M	11210277CY	11210277CTC
12310584	S100TRILC3M	113011R	M175MLTAC3M
12310588	S150TRILC3M	113011RA	M175MLTAC3M
12311146	S70MLTLC3M	113011RTC	M175MLTAC3M

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1130122R	M400MLTAC4M	1135138R	M1000230AC5M
113012A	M250MLTAC3M	1135140R	M1500230AC5M
113012R	M250MLTAC4M	1135231R	M400230AC4M
113013R	M400MLTAC4M	1135231RL	M400230AC4M
113013RA	M400MLTAC4M	1135233R	M1000230AC5M
113013S	M400MLTAC4M	1135233RL	M1000230AC5M
113015R	M175MLTAC3M	1135234R	M1500230AC5M
113015RA	M175MLTAC3M	1135234RL	M1500230AC5M
113016A	M250MLTAC3M	114091R	1110245SCTC
113016R	M250MLTAC4M	114093R	1110247SCTC
1130177R	M150MLTLC3D	12110236CTC	12210236CTC
113017R	M400MLTAC4M	12110239CTC	12210239CTC
113017RA	M400MLTAC4M	12210147C	12210552CTC
113019R	M175MLTAC3M	12210147CTC	12210552CTC
113019RA	M175MLTAC3M	12210236CY	12210236CTC
113020A	M250MLTAC3M	12210261RCTC	12210261CTC
113020R	M250MLTAC4M	1230123R	S400MLTAC5M
113021R	M400MLTAC4M	1230127S	S1000MLTAC5M
113021RA	M400MLTAC4M	123012S	S250MLTAC4M
113023R	M175MLTAC3M	123012SA	S250MLTAC4M
113023RA	M175MLTAC3M	123013S	S400MLTAC4M
1130245R	M175MLTAC3M	123013SA	S400MLTAC5M
1130246R	M250MLTAC4M	123013U	S400MLTAC4M
1130247R	M250MLTAC3M	123013UA	S400MLTAC4M
113024R	M250MLTAC4M	123016S	S250MLTAC4M
113025R	M400MLTAC4M	123016SA	S250MLTAC4M
113025RA	M400MLTAC4M	123017S	S400MLTAC4M
113027R	M175TRIAC30	123017SA	S400MLTAC5M
113027RY	M175TRIAC30	123017U	S400MLTAC4M
113028R	M250TRIAC4M	123017UA	No Direct Cross
113028Y	M250TRIAC3M	123020S	S250MLTAC4M
1130295R	M250TRIAC3M	123020SA	S250MLTAC4M
1130296R	M400TRIAC4M	123021R	S400MLTAC5M
113029R	M400TRIAC4M	123021S	S400MLTAC5M
113029RY	M400TRIAC4M	123021SA	S400MLTAC5M
113031A	M25048TAC4M	123021T	S400MLTAC5M
113032R	M25048TAC4M	123021U	S400MLTAC4M
113033R	M40048TAC4M	123021UA	S400MLTAC4M
113033RA	M40048TAC4M	1230246S	S250MLTAC4M
113053Y	M1000TRIAC5M	1230247S	S400MLTAC4M
1130566R	M250TRIAC3M	1230247U	S400MLTAC4M
1130568R	M400TRIAC4M	1230249S	S1000MLTAC5M
1130593R	M250TRIAC4M	123024S	S250MLTAC4M
1130593RA	M250TRIAC4M	123024SA	S250MLTAC4M
1130595R	M400TRIAC4M	123025R	S400MLTAC5M
1130595RA	M400TRIAC4M	123025S	S400MLTAC5M
1130599R	M1500TRIAC5M	123025SA	S400MLTAC5M
113059R	M1500MLTAC5M	123025T	S400MLTAC5M
1130605A	M1500MLTAC5M	123025UA	S400MLTAC4M
113061R	M1500MLTAC5M	123028S	S250TRIAC4M
113063R	M1500MLTAC5M	123028SY	S250TRIAC4M
113065R	M1500MLTAC5M	1230295S	S250TRIAC4M
113067R	M1500TRIAC5M	1230295SA	S250TRIAC4M
113067Y	M1500TRIAC5M	1230296S	S400TRIAC4M
113069R	M150048TAC5M	1230296U	S400TRIAC4M
113071R	M175MLTAC3M	123029S	S400TRIAC5M
113072R	M250MLTAC4M	123029SY	S400TRIAC5M
113073R	M400MLTAC4M	123029U	S400TRIAC4M
1130826S	M400ML5AC4M	123032S	S25048TAC4M
113091R	M175MLTAC3M	123032SA	S25048TAC4M
113091RA	M175MLTAC3M	123033R	S40048TAC5M
113092A	M250MLTAC4M	123033S	S40048TAC5M
113092R	M250MLTAC4M	123033SA	S40048TAC5M
113092RA	M250MLTAC4M	123033T	S40048TAC4M
113093LL	M400MLTAC4M	123033U	S40048TAC4M
113093LLPROC	M400MLTAC4M	123033UA	S40048TAC4M
113093R	M400MLTAC4M	123037R	S1000MLTAC5M
113093RA	M400MLTAC4M	123037S	S1000MLTAC5M
113093S	M400MLTAC4M	123041S	S1000MLTAC5M
113093U	M400MLTAC4M	123045R	S1000MLTAC5M
113097R	M1000MLTAC5M	123045RY	S1000MLTAC5M
113099R	M1500MLTAC5M	123045S	S1000MLTAC5M
11310239A	M100MLTLC3M	123049R	S1000MLTAC5M
11310510A	M70MLTLC3M	123049S	S1000MLTAC5M
11310604A	M70TRILC3M	123053RY	S1000TRIAC5M
1131090A	M100MLTLC3M	123053S	S1000TRIAC5M
1132271R	M175TRIAC30	1230566S	S250TRIAC4M
1132271RY	M175TRIAC30	1230568S	S400TRIAC4M
1132281Y	M250TRIAC4M	1230568U	S400TRIAC4M
1132291RY	M400TRIAC4M	123057R	S100048TAC5M
1132331R	M40048TAC4M	123057S	S100048TAC5M
1132331RA	M40048TAC4M	1230593S	S250TRIAC4M
1132531Y	M1000TRIAC5M	1230593SA	S250TRIAC4M
1132671R	M1500TRIAC5M	1230595S	S400TRIAC5M
1132691R	M150048TAC5M	1230595U	S400TRIAC4M
113314R	No Direct Cross	1230595UA	S400TRIAC4M
1135134R	M400230AC4M	1230598S	S1000TRIAC5M

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123081S	S1000MLTAC5M	123335UA	S50120RCEM
123092S	S250MLTAC4M	123335UN	123335W
123092SA	S250MLTAC4M	1235138S	S1000230AC5M
123093R	S400MLTAC5M	1235230S	S250230AC4M
123093S	S400MLTAC4M	1235233SL	S1000230AC5M
123093SA	S400MLTAC5M	1238122S	S250230AC4M
123093T	S400MLTAC4M	1238123S	S400230AC4M
123093U	S400MLTAC4M	1238134S	No Direct Cross
123093U001T	S400MLTAC4M	1238169S	No Direct Cross
123093U5	S400MLTAC4M	1238183S	No Direct Cross
123093UA	S400MLTAC4M	123824S	S250230AC4M
123097R	S1000MLTAC5M	124092S	No Direct Cross
123097S	S1000MLTAC5M	232-1807-327	12210261CTC
12310143A	S70MLTLC3M	232-1847-327	12210237CTC
12310147R	S70TRILC3M	232-1857-327	12210239CTC
12310147RY	S70TRILC3M	232-1867-327	12210241CTC
12310148R	S7048TLC3M	336-1337-327	Banned by DOE
12310148RA	S7048TLC3M	336-1377-327	Banned by DOE
12310153A	S70MLTLC3M	336-1387-327	Banned by DOE
12310159RY	S150TRILC3M	336-1397-327	Banned by DOE
12310159S	S150TRILC3M	336-1437-327	Banned by DOE
12310160R	S15048TLC3M	336-1467-327	Banned by DOE
12310160S	S15048TLC3M	336-1757-327	1110246CTC
12310160SA	S15048TLC3M	336-1777-327	1110245SCTC
12310165A	S150MLTLC3M	336-1787-327	1110247SCTC
1231018A	S100MLTLC3M	336-1877-327	No Direct Cross
1231022A	S100MLTLC3M	336-27810	No Direct Cross
12310236A	S50MLTLC3M	336-2786-000	No Direct Cross
12310237A	S70MLTLC3M	336-43310	No Direct Cross
12310239A	S100MLTLC3M	336-4334-000	No Direct Cross
12310241A	S150MLTLC3M	336-4336-000	No Direct Cross
1231026R	S100TRILC3M	337-1790-000	No Direct Cross
1231026RY	S100TRILC3M	337-1790-009	No Direct Cross
1231030R	S10048TLC3M	337-2781-000	No Direct Cross
12310584A	S100TRILC3M	805-1330-000	Banned by DOE
12310588A	S150TRILC3M	805-1360-000	Banned by DOE
1231090A	S100MLTLC3M	805-1370-000	Banned by DOE
1231090R	S100MLTLC3M	805-1380-000	Banned by DOE
1231095A	S50MLTLC3M	805-1390-3	Banned by DOE
123121471R	S70TRILC3M	805-1770-000	M175MLTAC3M
123121481R	S7048TLC3M	805-1780-000	M400MLTAC4M
123121481RA	S7048TLC3M	805-1790-000	M1000MLTAC5M
123121591S	S150TRILC3M	H100048TAC5M	Banned by DOE
123121601S	S15048TLC3M	H1000MLTAC5M	Banned by DOE
12312261R	S100TRILC3M	H100230AC3M	Banned by DOE
12312261R	S100TRILC3M	H10048TAC3M	Banned by DOE
12312261RY	S100TRILC3M	H100MLTAC3M	Banned by DOE
12312301R	S10048TLC3M	H100TRIAC3M	Banned by DOE
12312301R001	S10048TLC3M	H120MLTAC3M	Banned by DOE
1232171RY	S400MLTAC4M	H175120LC3N	Banned by DOE
1232281SY	S250TRIAC4M	H17548TAC3M	Banned by DOE
1232321S	S25048TAC4M	H175MLTAC3M	Banned by DOE
1232331S	S40048TAC4M	H175TRIAC3M	Banned by DOE
1232331SA	S40048TAC5M	H250230AC3M	Banned by DOE
1232331U	S40048TAC4M	H25048TAC3M	Banned by DOE
1232331UA	S40048TAC4M	H250MLTAC3M	Banned by DOE
1232531S	S1000TRIAC5M	H250TRIAC3M	Banned by DOE
1232571R	S100048TAC5M	H400120AC4M	Banned by DOE
1232571S	S100048TAC5M	H400230AC4M	Banned by DOE
123310N	123310W	H40048TAC4M	Banned by DOE
123310S	123310W	H400MLTAC4M	Banned by DOE
123310SN	123310W	H400TRIAC4M	Banned by DOE
123310U	123310W	HPS10001B	HPS10004B
123310UA	S100120RCEM	HPS10001BY	HPS10004B
123310UN	S100120RCEM	HPS100045B	HPS100055B
1233142N	1233142W	HPS10006B	HPS10004B
1233142S	1233142W	HPS15035B	HPS15045B
1233142SN	1233142W	HPS1503E	HPS1503A
1233142U	1233142W	HPS1504F	HPS1504A
1233142UA	1233142W	HPS1505A	HPS1505B
1233142UN	S70120RCEM	HPS4002B	HPS4003A
1233154S	1233154W	HPS40035B	HPS40045B
1233154SN	1233154W	HPS4501A	HPS4501B
1233154U	1233154W	HPS7501B	No Direct Cross
1233154UA	S150120RCEM	M1000208AC5M	M1000MLTAC5M
1233154UN	S150120RCEM	M1000480AC5M	M100048TAC5M
1233183S	No Direct Cross	M1000480AC5M	M100048TAC5M
123324S	No Direct Cross	M1000MLTAI5M	No Direct Cross
1233251P	1233251W	M1000MLTAI5M	No Direct Cross
1233251S	1233251W	M1000MLTAN4M	M1000MLTAN5M
1233251U	1233251W	M1000MLTAN5M	M1000ML5AC5M
1233251UA	1233251W	M100120LC32	M100120LC3N
123335N	123335W	M100120LC3N	M100MLTLC3M
123335P	123335W	M1500120AC5M	M1500MLTAC5M
123335S	123335W	M1500277AC5M	M1500MLTAC5M
123335SN	123335W	M1500480AC5M	M150048TAC5M
123335U	123335W	M175120AC3M	M175MLTAC3M

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M175230AC3M	M175MLTAC3M	P20048TAC3M	P20048TAC3L
M175277AC3M	M175MLTAC3M	P200MLTAC3M	P200MLTAC3L
M175MLTAC4M	M175MLTAC3M	P200MLTAC4M	P200MLTAC3L
M175MLTAE3M	1110245SCTC	P25048TAC4M	P25048TAC4L
M175TRIA3M	M175TRIA30	P250MLTAC4M	P250MLTAC4L
M250120AC3M	M250MLTAC3M	P32048TAC4M	P32048TAC4L
M250208AC3M	M250MLTAC3M	P320MLTAC4M	P320MLTAC40
M250240AC3M	M250MLTAC3M	P320MLTAC4M	P320MLTAC40
M250277AC3M	M250MLTAC3M	P35015B	No Direct Cross
M250347AC3M	M250TRIA3M	P350-15B	No Direct Cross
M250MLTAE3M	No Cross	P350480AC4M	P35048TAC4L
M250TRIA4M	M250TRIA3M	P35048TAC4M	P35048TAC4L
M35120LC3M	M35MLTLC3M	P400277RCEM	P400MLTAC4L
M400120AC4M	M400MLTAC4M	P400MLTAC4M	P400MLTAC4L
M400208AC4M	M400MLTAC4M	P400MLTAC4M	P400MLTAC4L
M400240AC4M	M400MLTAC4M	P45048TAC4M	P45048TAC4L
M400277AC4M	M400MLTAC4M	P450ML5AC4M	P450ML5AC4L
M40027TAC4M	M400MLTAC4M	P450MLTAC4M	P450MLTAC4L
M40048TAC4S	M40048TAC4M	S1000208AC5M	S1000MLTAC5M
M400MLTAC4C	M400MLTAC4M	S1000277AC5M	S1000MLTAC5M
M400MLTAC4L	M400MLTAC4M	S1000MLTLC3M	S1000MLTAC5M
M400MLTAC4S	M400MLTAC4M	S150208LC3M	S150MLTLC3M
M400MLTAE4M	1110247SCTC	S150MLTAC3M	S150MLTLC3M
M400MLTAI4X	No Direct Cross	S250208AC4M	S250MLTAC4M
M400MLTAWX	No Direct Cross	S250480AC4M	S25048TAC4M
M400TRIAN4M	M400TRIA40	S262R120V54F	No Direct Cross
M50120LC3N	M50MLTLC3M	S400120AC4M	S400MLTAC4M
M70120LC3N	M70MLTLC3M	S400277AC4M	S400MLTAC4M
M70MLTAC3M	M70MLTLC3M	S400277AC4M	S400MLTAC4M
MH10025B	MH10035B	S400480AC4M	S40048TAC4M
MH15015B	No Direct Cross	S430TRIA4M	No Direct Cross
MH1501B	MH1003A	SA250	SA100
MH15035B	No Direct Cross	SA55	SA100
MH7035B	MH703B	WP12310165	No Direct Cross
MH703A	No Direct Cross	WP203013R	No Direct Cross
P17548TAC3M	P17548TAC3L	WP203013R	No Direct Cross
P175MLTAC3M	P175MLTAC3L	WP203017S	No Direct Cross
P175TRIA3M	P175TRIA3M	WP213017	No Direct Cross
P200277RCEM	P175277RCEM	WP213073	No Direct Cross

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eHID

188151.02	188901.00	188523.02	188632.02
188152.02	188882.02	188524.02	188634.02
188156.02	188895.02	188551.02	188896.02
188157.02	188895.02	188610.02	188901.02
188171.02	188638.05	188611.02	188903.02
188172.02	188639.05	188627.02	188902.02
188173.02	188638.05	188628.02	188940.02
188184.02	188639.05	188629.02	188903.02
188243.02	188638.05	188638.02	188638.05
188246.02	188776.02 or 188246.05	188639.02	188639.05
188293.02	188895.02	EC100UNVBS	188633.02
188301.02	188896.02	EC100UNVSE	188169.02
188303.02	188629.02	EC150UNVBS	188638.05
188304.02	188631.02	EC20120SE	188514.02
188305.02	188633.02	EC20UNVBS	188902.02
188308.02	188639.05	EC20UNVSE	188901.02
188402.02	188895.02	EC39120SE	188635.02
188512.02	188896.02	EC39UNVSE	188895.02
188522.02	188630.02		

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Sign

51742	256-0248-800	511232616TCP	MSB-1232-816
51792	256-0472-800	51591XLHR	256-0296-800
51861	256-0696-800	51591XLHRFL	256-1296-800
51863	256-0396-800	51591XLHRTC	256-0296-800
71791	258-0464-800	51591XLHRTCP	256-0296-800
71863	258-0396-800	51591XLHRTCPFL	256-1296-800
256-0148-000	256-0148-800	51601XLH	USB-0412-12
256-0248-000	256-0248-800	51601XLHFL	256-0272-800
256-02720	USB0412-12	51601XLHR	256-0272-800
256-0272-000	256-0272-800	51601XLHRTC	256-0272-800
256-0296-000	256-0296-800	51601XLHRTCP	256-0272-800
256-0348-000	256-0348-800	51601XLHTC	256-0272-800
256-0372-100	256-0372-800	51604XLH	USB-0816-14
256-0396-100	256-0396-800	51604XLHR	256-0348-800
256-0396-600	256-0396-800	51604XLHRFL	256-1348-800
256-0448-100	256-0448-800	51604XLHRTC	256-0348-800
256-0464	256-0464-800	51604XLHRTCP	256-0348-800
256-04640	USB-1024-14	51604XLHRTCPFL	256-1348-800
256-0472-100	256-0472-800	51604XLHTC	256-0348-800
256-0484-100	256-0484-800	51609X	256-0148-800
256-0484-106	256-0484-800	51609XR	256-0148-800
256-049	256-0496-800	51609XRTC	256-0148-800
256-0496-100	256-0496-800	51609XRTCP	256-0148-800
256-0648	256-0648-800	51609XTC	USB-0412-12
256-0672-000	256-0672-800	51611CFL	USB-1024-14
256-0672-7	USB-2036-46	51611CR	256-0372-800
256-0696-000	256-0696-800	51611CRFL	256-0372-800
256-0696-6	USB-2048-46	51611CRTC	256-0372-800
256-1272	No Replacement	51611CRTCP	256-0372-800
256-1296	No Replacement	51611CRTCPFL	256-1372-800
256-1348-000-5	No Replacement	51741CR	256-0448-800
256-1372	No Replacement	51741CRTC	256-0448-800
256-15880	256-1588-800	51741CRTCP	256-0448-800
256-1588-000	256-1588-800	51742R	256-0248-800
256-3011-662	256-3011-862	51742RTC	256-0248-800
256-3091-160	256-3091-860	51742RTCP	256-0248-800
256-3120-100	256-3120-800	51742TC	256-0248-800
256-3241-600	256-3241-800	51744J	256-3120-800
256-3331	256-2961-800	51744JR	256-3120-800
256-41200	USB-2048-46	51744JRTC	USB-1632-24
256-4120-000	256-4120-800	51744JRTCP	256-3120-800
258-0001-004	256-0001-004	51745JR	256-0496-800
258-0272-000	256-0272-800	51745JRTC	256-0496-800
258-0272-800	256-0272-800	51745JRTCP	256-0496-800
258-0296-000	256-0296-800	51791R	256-0464-800
258-0296-800	256-0296-800	51791RTC	256-0464-800
258-0348-000	256-0348-800	51791RTCP	256-0464-800
258-0348-800	256-0348-800	51792001C	USB-1024-14
258-0372-000	256-0372-800	51792R	256-0472-800
258-0372-100	256-0372-800	51792RTC	256-0472-800
258-0372-800	256-0372-800	51793JR	256-0484-800
258-0396-100	256-0396-800	51793JRTC	256-0484-800
258-0396-800	256-0396-800	71604XLHR	258-0348-800
258-0448-000	256-0448-800	71604XLHRTCP	258-0348-800
258-0448-100	256-0448-800	71611CR	258-0372-800
258-0448-800	256-0448-800	71611CRTCP	258-0372-800
258-0464	256-0464-800	71741CR	258-0448-800
258-0464-800	256-0464-800	71741CRTCP	258-0448-800
258-0472-100	256-0472-800	71745J	258-0496-800
258-0472-800	256-0472-800	71745JR	258-0496-800
258-0484	256-0484-800	71745JRTCP	258-0496-800
258-0484-800	256-0484-800	71745JTC	258-0496-800
258-0496-100	256-0496-800	71791R	258-0464-800
258-0496-800	256-0496-800	71791RTCP	258-0464-800
258-0648-000-0	256-0648-800	71792R	258-0472-800
258-0648-800	256-0648-800	71792RTCP	258-0472-800
258-0672	256-0672-800	71792TC	258-0472-800
258-0672-800	256-0672-800	71793J	258-0484-800
258-0696	256-0696-800	71793JR	258-0484-800
258-0696-800	256-0696-800	71793JRTCP	258-0484-800
258-3372-100	258-3372-800	71794J	258-0648-800
258-3372-800	No Replacement	71794JR	258-0648-800
258-3396-100	No Replacement	71794JRTC	258-0648-800
258-3396-800	No Replacement	71794JRTCP	258-0648-800
258-3472-100	No Replacement	71797S	258-0672-800
258-3472-800	No Replacement	71797SR	258-0672-800
258-3496-100	No Replacement	71797SRTCP	258-0672-800
258-3496-800	No Replacement		
300-2171-650	300-2171-850		
5102180160011	MSB-0218-816		
510218616TC	MSB-0218-816		
510218616TCP	MSB-0218-816		
5110480160011	MSB-1048-816		
511048616TC	MSB-1048-816		
511048616TCP	MSB-1048-816		
5112320160011	MSB-1232-816		
511232616TC	MSB-1232-816		

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Electronic Fluorescent			
6687	No Replacement	B2321120HP-B	B2321IUNVHP-B
7696	No Replacement	B2321120HPH	B2321120RHH-A
8151	No Replacement	B2321120HPL	B2321120EL
8229	No Replacement	B2321120L	B2321120L-A
8437	No Replacement	B2321120L-A	B2321IUNVEL-A
8548	No Replacement	B2321120RA-A	No Direct Cross
8971	No Replacement	B2321120RE-A	B2321120EXP-A
9468	No Replacement	B2321120RH	B2321120RH-A
7811224	B239PUNV-D	B2321120RHH	B2321IUNVHEH-A
7811484	B228PUNV-C	B2321120RHH-A	B2321IUNVHEH-A
7811510	No Direct Cross/B1321347HP	B2321220HP-B	B2321IUNVHP-B
7811679	No Direct Cross/B2321347HP	B2321220RH	B2321220HP
7811684	B259IUNVHP-A	B2321277	B2321IUNVHP-B
7811721	B259IUNVHP-A	B2321277EL	B2321IUNVEL-A
7814528	ES4528X	B2321277HE	B2321IUNVHE-A
7814800	B232PUNVHE-B	B2321277HP	B2321IUNVHP-B
212ATCP	B260IUNVHP	B2321277HP-B	B2321IUNVHP-B
300-0411-800	B260IUNVHP	B2321277HPH	B2321IUNVHEH-A
300-0411-805	B260IUNVHP	B2321277HPL	B2321IUNVEL-A
300-0418-800	B260IUNVHP	B2321277L	B2321IUNVEL-A
300-0418-805	B260IUNVHP	B2321277L-A	B2321IUNVEL-A
300-1321-705	B260IUNVHP	B2321277RH	B2321IUNVHP-B
492XLHTC	B295SRUNVHP	B2321277RH-A	B2321IUNVHP-B
493B2	B295SRUNVHP	B2321277RHH	B2321IUNVHEH-A
51794J	256-0648-800	B2321277RHH-A	B2321IUNVHEH-A
51794JR	256-0648-800	B2321347HP	B2321347HP-A
51794JRTC	256-0648-800	B2321347L	B2321347HPL
51794JRTCP	256-0648-800	B2321347L-A	B2321347HPL
51797S	256-0672-800	B2321347RH	B2321347RH-A
51797SR	256-0672-800	B2321IUNV-C	B2321IUNVHP-N
51797SRTC	256-0672-800	B2321IUNVHP-B	B2321IUNVHP-A
51797SRTCP	256-0672-800	B232P120HP-A	B232PUNVHE-B
51861R	256-0696-800	B232P120RH	B232PUNVHE-B
51861RTC	256-0696-800	B232P277HP-A	B232PUNVHE-B
51861RTCP	256-0696-800	B232P277RH	B232PUNVHE-B
51862R	256-4120-800	B232PUNVEL-A	B232PUNVEL-B
51862RTC	256-4120-800	B232PUNVHE-A	B232PUNVHE-B
51862RTCP	256-4120-800	B232PUNVHP-A	B232PUNVHE-B
51863001C	USB-1024-14	B232R120HP	B232PUNVHE-B
51863FL	256-0396-800	B232R277HP	B232PUNVHE-B
51863R	256-0396-800	B240R120	B240R120HP
51863RTC	256-0396-800	B240R120RH	B234SR120M-A/B240R120HP
51863RTCP	256-0396-800	B240R277	B234SR277M-A
71863R	258-0396-800	B240R277HP	B234SR277M-A
71863RTCP	258-0396-800	B240R277RH	B234SR277M-A
721LVLHTCP	B340R120HP	B240T120	B240R120HP
722LVLHTCP	B340R277HP	B240T120RH	B234SR120M-A
734LTCP	B1321120RH-A	B240T277	B234SR277M-A
735LTCP	B1321277RH-A	B240T277RH	B234SR277M-A
769LTC	B2321347RH-A	B254IHRV-E	B254PHRVH-E
7811608-BEV	ES1608A	B254IUNV-E	B254PUNV-D
7811721-NOM	B259IUNVHP	B254PHRV-E	B254PHRVH-E
827ATCP	B260I277HP	B254PUNVHT-D	B254PUNVH-D
831TC	B260IUNVHP	B2591120HE	B259IUNVHE-A
856BR	B260IUNVHP	B2591120HE-SL	B259IUNVHE-A
B1321120HP	B1321IUNVHP-B	B2591120HP	B259IUNVHP-A
B1321120HP-B	B1321IUNVHP-B	B2591120HP-A	B259IUNVHP-A
B1321277HP	B1321IUNVHP-B	B2591120HPL	B259IUNVEL-A
B1321277HP-B	B1321IUNVHP-B	B2591120RH	B259IUNVHP-A
B1321277RH	B1321IUNVHP	B2591120RH-A	B259IUNVHP-A
B1321277RH-A	B1321IUNVHP	B2591120RHH	No Direct Cross
B1321277RHH-A	B2321IUNVHEH-A	B2591277HE	B259IUNVHE-A
B1321347RH	B1321347HP	B2591277HP	B259IUNVHP-A
B132P120	B132PUNVHP-A	B2591277HP-A	B259IUNVHP-A
B132P120HP-A	B132PUNVHP-A	B2591277HPL	B259IUNVEL-A
B132P120RH	B132PUNVHP-A	B2591277RH	B259IUNVHP-A
B132P277	B132PUNVHP-A	B2591277RH-A	B259IUNVHP-A
B132P277HP-A	B132PUNVHP-A	B2591277RHH	No Direct Cross
B132P277RH	B132PUNVHP-A	B2601120HP	B260IUNVHP
B1371277RH-A	B1321277RH-A	B2601120RH	B260IUNVHP
B140R120HP	B134R120M-A	B2601277HP	B260IUNVHP
B140R277HP	B234SR277M-A	B2601277RH	B260IUNVHP
B140T120	B134R120M-A	B2751120	B260IUNVHP
B140T120RH	B134R120M-A	B2751120RH	B260IUNVHP
B140T277	B234SR277M-A	B2751277	B260IUNVHP
B140T277RH	B234SR277M-A	B2751277RH	B260IUNVHP
B1591120RH	B259IUNVHP-A	B2751277RHQP	B260IUNVHP
B1591277RH	B259IUNVHP-A	B295SR120HP	B295SRUNVHP
B2110SR120	B295SR120HP	B295SR277HP	B295SRUNVHP
B2110SR120L	B295SR120HP	B3321120	B3321IUNVHP-A
B2110SR277	B295SR277HP	B3321120EL	B3321IUNVEL-A
B2110SR277L	B295SR277HP	B3321120HE	B3321IUNVHE-A
B2321120	B2321120RH-A	B3321120HP	B3321IUNVHP-A
B2321120EL	B2321IUNVEL-A	B3321120HP-A	B3321IUNVHP-A
B2321120-G	B2321120RES-G	B3321120HPL	B3321IUNVEL-A
B2321120HE	B2321IUNVHE-A	B3321120L	B3321IUNVEL-A
B2321120HP	B2321IUNVHP-B	B3321120L-A	B3321IUNVEL-A

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B3321120RH	B3321UNVHP-A	ES4515K	No Direct Cross
B3321120RH-A	B3321UNVHP-A	ES4537F	B224PUNV-C
B3321120RHH	B3321UNVHEH-A	ES4800A	B232PUNVHE-B
B3321277	B3321UNVHP-A	ES6021AMT-10	B1321UNVHP-B
B3321277EL	B3321UNVEL-A	ES6022AMT10	B2321UNVHP-B
B3321277HE	B3321UNVHE-A	ES6023NMT	B3321120RH-A
B3321277HP	B3321UNVHP-A	ES6023NMT10	B3321UNVHP-A
B3321277HP-A	B3321UNVHP-A	ES6024NMT	B4321120RH-A
B3321277HPL	B3321UNVEL-A	ES6024NMT10	B4321UNVHP-A
B3321277L	B3321UNVEL-A	ES6051AMT10	B1321UNVHP-B
B3321277L-A	B3321UNVEL-A	ES6052AMT10	B2321UNVHP-B
B3321277RH	B3321UNVHP-A	ES6053NMT10	B3321UNVHP-A
B3321277RH-A	B3321UNVHP-A	ES6054NMT10	B4321UNVHP-A
B3321277RHH	B3321UNVHEH-A	ES6072AMT10	B2321UNVHP-B
B3321347L	B3321347HPL	ES6073NMT	B3321277RH-A
B3321347RH	B3321347HP	ES6073NMT10	B3321UNVHP-A
B3321HRV-E	B3321HRVHB-E	ES6074NMT10	B4321UNVHP-A
B332P120HP-A	B332PUNVHE-A	ES6323BMT	B3321120RH-A
B332P120RH	B332PUNVHE-A	ES6354BMT10	B4321UNVHP-A
B332P277HP-A	B332PUNVHE-A	ESB296IUNV	ESB216-12
B332P277RH	B332PUNVHE-A	ESB496IUNV	ESB432-14
B332PUNVHP-A	B332PUNVHE-A	ESB696IUNV	ESB848-46
B332R120HP	B332PUNVHE-A	FBH-136	No Direct Cross
B332R277HP	B332PUNVHE-A	FBH-418	No Direct Cross
B340R120HP	No Direct Cross	LD12P321S120U	B2321120RH-A
B340R277HP	No Direct Cross	LD12P321S277U	B2321277RH-A
B340T120	No Direct Cross	LD13P321S120U	B3321120RH-A
B340T120RH	No Direct Cross	LD13P321S277U	B3321277RH-A
B340T277	No Direct Cross	LD14P321S120U	B4321120RH-A
B340T277RH	No Direct Cross	LD14P321S277U	B4321277RH-A
B4321120	B4321120RH-A	M132R120	B1321120RH-A
B4321120EL	B4321UNVEL-A	M132R120C	B1321120RH-A
B4321120EXP-A	B4321UNVHP-A	M132R277	B1321277RH-A
B4321120HE	B4321UNVHE-A	M132R277C	B1321277RH-A
B4321120HP	B4321UNVHP-A	M232SR120	B2321120RH-A
B4321120HP-A	B4321UNVHP-A	M232SR347C	B2321347RH-A
B4321120HPL	B4321UNVEL-A	M232SR347L	B2321347L-A
B4321120L	B4321UNVEL-A	MSB-0218	MSB-0218-816
B4321120L-A	B4321UNVEL-A	MSB-1048	MSB-1048-816
B4321120RA-A	B4321UNVHP-A	MSB-1232	MSB-1232-816
B4321120RE-A	B4321UNVHP-A	OS172811	B254PUNV-D
B4321120RH	B4321UNVHP-A	PS-12T	No Direct Cross
B4321120RH-A	B4321UNVHP-A	PS-13	No Direct Cross
B4321120RH-AW	B4321UNVHP-A	PS-15	No Direct Cross
B4321277	B4321UNVHP-A	PS-18	No Direct Cross
B4321277EL	B4321UNVEL-A	PS-22	No Direct Cross
B4321277HE	B4321UNVHE-A	PS-24	No Direct Cross
B4321277HP	B4321UNVHP-A	PS-26R	No Direct Cross
B4321277HP-A	B4321UNVHP-A	PS-32	No Direct Cross
B4321277HPL	B4321UNVEL-A	QT1X32/120IS	B1321120RH-A
B4321277L	B4321UNVEL-A	QT1X32/277IS	B1321277RH-A
B4321277L-A	B4321UNVEL-A	QT2X32/120HD1	B2321UNVHP-B
B4321277RH	B4321UNVHP-A	QT2X32/120HD10	B2321UNVHP-B
B4321277RH-A	B4321UNVHP-A	QT2X32/120IS	B2321120RH-A
B4321277RH-AW	B4321UNVHP-A	QT2X32/120LP	B2321120L-A
B4321277RH-AWM	B4321UNVHP-A	QT2X32/120PLU	B2321120RHH-A
B4321277RHQP	B4321UNVHP-A	QT2X32/120PLUS	B2321120RHH-A
B4321347L	B4321347HPL	QT2X32/277HD1	B2321UNVHP-B
B4321347RH	B4321347HP	QT2X32/277HD10	B2321UNVHP-B
B4321UNV-D	B4321UNVHP-A	QT2X32/277IS	B2321277RH-A
B432P120HP-A	B432PUNVHE-A	QT2X32/277LP	B2321277L-A
B432P120RH	B432PUNVHE-A	QT2X32/277PLU	B2321120RHH-A
B432P277HP-A	B432PUNVHE-A	QT2X32/277PLUS	B2321120RHH-A
B432P277RH	B432PUNVHE-A	QT2X59/120IS	B2591120RH
B432PUNVHP-A	B432PUNVHE-A	QT2X59/120PLU	B2591120RHH
B432R120HP	B432PUNVHE-A	QT2X59/120PLUS	B2591120RHH
B432R277HP	B432PUNVHE-A	QT2X59/277IS	B2591277RH
B440R120	B234SR120M-A/B240R120HP	QT2X59/277PLU	B2591277RHH
B454IUNV-E	No Direct Cross/B454PUNV	QT2X59/277PLUS	B2591277RHH
BT5-128/120	B228PUNV-C	QT3X32/120HD1	B3321UNVHP-A
BT5-128/12014W	B228PUNV-C	QT3X32/120HD10	B3321UNVHP-A
BT5-128/277	B228PUNV-C	QT3X32/120IS	B3321120RH-A
BT5-128/27714W	B228PUNV-C	QT3X32/120LP	B3321120L-A
BT5-228/120	B228PUNV-C	QT3X32/120PLU	B3321120RHH
BT5-228/277	B228PUNV-C	QT3X32/120PLUS	B3321120RHH
C255PUNV-D	B254PUNV-D	QT3X32/277HD1	B3321UNVHP-A
ES1002F	B454PUNV-E	QT3X32/277HD10	B3321UNVHP-A
ES1510A	No Direct Cross/B1321347HP	QT3X32/277IS	B3321277RH-A
ES1608A	No Direct Cross/B2321UNVHP	QT3X32/277LP	B3321277L-A
ES1608A-CPR	No Direct Cross/B2321UNVHP	QT3X32/277PLU	B3321277RHH
ES1679A	No Direct Cross/B2321347HP	QT3X32/277PLUS	B3321277RHH
ES1720B	No Direct Cross/B3321UNVHP	QT4X32/120HD1	B4321UNVHP-A
ES1786X	No Direct Cross	QT4X32/120HD10	B4321UNVHP-A
ES1786X-OSRU	No Direct Cross	QT4X32/120IS	B4321120RH-A
ES4500F	B228PUNV-C	QT4X32/120LP	B4321120L-A
ES4503F	B228PUNV-C	QT4X32/277HD1	B4321UNVHP-A
ES4510K	B254PUNV-D	QT4X32/277HD10	B4321UNVHP-A

Obsolete Catalog #	Recommended Substitution	Obsolete Catalog #	Recommended Substitution
QT4X32/2771S	B432I277RH-A	SLI432I277RH-A	B432I277RH-A
QT4X32/277LP	B432I277L-A	SLI432IUNVHPA	B432IUNVHP-A
QTAC2X32W/220	B232I220HP-B	SLI432IUNVHP-B	B432IUNVHP-A
QTAC2X32W/220V	B232I220HP-B	USB-0218-16	256-0296-800
S332I600	No Direct Cross	USB-0412-12	256-0272-800
SLI232I120RHA	B232I120RH-A	USB-0616-12-E	ESB296IUNV
SLI232I120RH-A	B232I120RH-A	USB-0816-14	256-0448-800
SLI232I277RHA	B232I277RH-A	USB-1024-14	256-0472-800
SLI232I277RH-A	B232I277RH-A	USB-1048-16	MSB-1048-816
SLI232IUNVHPB	B232IUNVHP-B	USB-1232-16	MSB-1232-816
SLI232IUNVHP-B	B232IUNVHP-B	USB-1232-24-E	USB-1232-24
SLI254PUNVD	B254PUNV-D	USB-1632-24	256-0496-800
SLI259IUNVHPA	B259IUNVHP-A	USB-2036-46	256-0672-800
SLI332I120RHA	B332I120RH-A	USB-2048-46	256-0696-800
SLI332I120RH-A	B332I120RH-A	USB-TDR1218-23	258-3372-800
SLI332I277RHA	B332I277RH-A	USB-TDR1632-24	258-3496-800
SLI332IUNVHPA	B332IUNVHP-A	W590DTC	B234SR277M-A
SLI332IUNVHP-B	B332IUNVHP-A	W650LTCP	B234SR120M-A
SLI432I120RHA	B432I120RH-A	W659TCP	B234SR277M-A
SLI432I120RH-A	B432I120RH-A	WPR480XLHR	B295SRUNVHP
SLI432I277RHA	B432I277RH-A		

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Dimming			

7815821	B132PUNVSV3-A	B232SR277S50	B232PUS50-A
7815822	B232PUNVSV3-A	B232SR277V20	B232PUNVSV3-A
7815839	B128PUNVSV3-D	B232SR277V5	B232PUNVSV3-A
7815849	B114PUNVSV3-D	B232T120S	B232PUS50-A
7815851	B214PUNVSV3-D	B232T277S	B232PUS50-A
7815853	B135PUNVSV3-D	B332SR120S50	2 x B232PUS50-A
7815861	B228PUNVSV3-D	B332SR120V10	B332SR120V5
7815010GT	C226UNVSV3ME	B332SR120V20	B332SR120V5
7815010HT	C226UNVSV3ME	B332SR277S50	2 x B232PUS50-A
7815011GT	C226UNVSV3ME	B332SR277V10	B332SR277V5
7815011HT	C226UNVSV3ME	B332SR277V20	B332SR277V5
7815012GT	C218UNVSV3ME	B432P277V5-E	B432SR277V5
7815012HT	C218UNVSV3ME	ES5010GTxxxx	C226UNVSV3ME
7815013GT	C226UNVSV3ME	ES5010HTxxxx	C226UNVSV3ME
7815013HT	C226UNVSV3ME	ES5011GTxxxx	C213UNVSV3ME
B132R120S50	B232PUS50-A	ES5011HTxxxx	C213UNVSV3ME
B132R120V20	B132PUNVSV3-A	ES5012GTxxxx	C218UNVSV3ME
B132R120V5	B132PUNVSV3-A	ES5012HTxxxx	C218UNVSV3ME
B132R277S50	B232PUS50-A	ES5013GTxxxx	C226UNVSV3ME
B132R277V20	B132PUNVSV3-A	ES5013HTxxxx	C226UNVSV3ME
B132R277V5	B132PUNVSV3-A	ES5821B	B132PUNVSV3-A
B132T120S	B232PUS50-A	ES5822B	B232PUNVSV3-A
B132T277S	B232PUS50-A	ES5847K	B228PUNVSV3-D
B228PU90S50D	B228PU95S50D	ES5849K	B114PUNVSV3-D
B232SR120S50	B232PUS50-A	ES5851K	B214PUNVSV3-D
B232SR120V20	B232PUNVSV3-A	ES5853K	B135PUNVSV3-D
B232SR120V5	B232PUNVSV3-A	ES5861K	B228PUNVSV3-D

Universal neither warrants or guarantees the accuracy of this information.
For current Universal specifications, consult www.unvlt.com.
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