

AEI SYSTEMS POWER IC MODEL LIBRARY LISTINGS - Release 3.0

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* Indicates New for V3.0a

Power MOS/IGBT Drivers	Vendor	Library	Part Description	Application Schematic File Name	Topology	Analysis
IR2110	IR	IR_Driver	Hi and Lo Side Drivers	IR2110Test		
IR2110S	IR	IR_Driver	Hi and Lo Side Drivers	IR2110STest		
RIC7113	IR	IR_Driver	Hi and Lo Side Drivers	RIC7113Test		
SI4724CY	Vishay	Vishay	N-Channel Synchronous MOSFETs with Break-Before-Make, See SI4724CY.pdf	SI4724CYTest	MOSFET Driver Test Circuit	
SI4763CY	Vishay	Vishay	N-Channel Synchronous MOSFETs with Break-Before-Make	SI4763CYTest	MOSFET Driver Test Circuit	
SI4770CY	Vishay	Vishay	N-Channel Synchronous MOSFETs with Break-Before-Make	SI4770CYTest	MOSFET Driver Test Circuit	
Sic710DD	Vishay	Vishay	Half-Bridge FET Driver	Sic710DD		
Sic720DD	Vishay	Vishay	Half-Bridge FET Driver	Sic720DD		
SIP41101	Vishay	Vishay	Half-Bridge FET Driver	SIP41101		
HIP2100	Intersil	Intersil	100VDC - 2A Half Bridge Driver	HP2100Test		Transient
HIP2101	Intersil	Intersil	100V Half Bridge N-Channel	HP2101Test	Capacitive load	Transient
HIP6601B	Intersil	Intersil	MOSFET Driver, Dual N-Channel	HP6601BTest	Capacitive load	Transient
HIP6602B	Intersil	Intersil	Synchronous Rectified Buck MOSFET	HP6602BTest	Capacitive load	Transient
MIC4416	Micrel	Micrel	12A-Peak Low-Side MOSFET Driver			
MIC4417	Micrel	Micrel	12A-Peak Low-Side MOSFET Driver			
MIC4420	Micrel	Micrel	6A-Peak Low-Side MOSFET Driver			
MIC4429	Micrel	Micrel	6A-Peak Low-Side MOSFET Driver			
MIC4421	Micrel	Micrel	9A-Peak Low-Side MOSFET Driver			
MIC4422	Micrel	Micrel	9A-Peak Low-Side MOSFET Driver			
MIC4421A	Micrel	Micrel	9A-Peak Low-Side MOSFET Driver			
MIC4422A	Micrel	Micrel	9A-Peak Low-Side MOSFET Driver			
MIC4423	Micrel	Micrel	3A-Peak Low-Side MOSFET Driver			
MIC4424	Micrel	Micrel	3A-Peak Low-Side MOSFET Driver	MIC4424, MICREL_Test	Capacitive load	Transient
MIC4451	Micrel	Micrel	12A-Peak Low-Side MOSFET Driver			
MIC4452	Micrel	Micrel	12A-Peak Low-Side MOSFET Driver			
TPS2834 *	TI	TI_Power	Synchronous-Buck MOSFET Drivers With Deadtime Control	TPS2834_5_App		Transient Steady State
TPS2835 *	TI	TI_Power	Synchronous-Buck MOSFET Drivers With Deadtime Control	TPS2834_5_App		Transient Startup
UCC37323 *	TI	TI_Power	Dual 4 A Peak High Speed Low-Side Power MOSFET Drivers	UCC37324 Test Circuit		Transient Pulse Test Circuit
UCC37324 *	TI	TI_Power	Dual 4 A Peak High Speed Low-Side Power MOSFET Drivers	UCC37324 Test Circuit		Transient Pulse Test Circuit
UCC37325 *	TI	TI_Power	Dual 4 A Peak High Speed Low-Side Power MOSFET Drivers	UCC37324 Test Circuit		Transient Pulse Test Circuit
Linear	Vendor	Library	Part Description	Application Schematic File Name	Topology	Analysis
AD524S	AD	ADI_Linear	Analog Multiplier, See AD524S.pdf	NA		
AD534T	AD	ADI_Linear	Instrumentation Amp, See AD534T.pdf	NA		
AD536A	AD	ADI_Linear	Integrated Circuit True RMS to DC Converter	AD536A Test dB, AD536A Test	Normal and dB output Connection Test Circuits	Transient analysis, Operating point analysis
AD636	AD	ADI_Linear	Low Level, True RMS to DC Converter	AD636C, AD636C_dB	Normal and dB output Connection Test Circuits	Transient analysis, Operating point analysis
AD637	AD	ADI_Linear	High Precision, Wideband RMS to DC Converter	dB Test, Test	Normal and dB output Connection Test Circuits	Transient analysis, Operating point analysis
AD736	AD	ADI_Linear	Low Cost, Low Power, True RMS to DC Converter	Test (AD736G)	DC output test circuit	Transient analysis, Operating point analysis
AD737F	AD	ADI_Linear	Low Cost, Low Power, True RMS to DC Converter	Test (AD737F)	DC output test circuit	Transient analysis, Operating point analysis
AD8000 *	AD	ADI_Linear	1.5 GHz, Ultra-High Speed Op Amp with Power-Down	AD8000 Test	Frequency Response	AC analysis
AD8003 *	AD	ADI_Linear	Triple, 1.5 GHz Op Amp	AD8003	Frequency Response	AC analysis
AD8099	AD	ADI_Linear	Op-amp, See AD8099.pdf	AD8099Test	Gain of 10	AC analysis
AD8133 *	AD	ADI_Linear	Triple Differential Driver With Output Pull-Down	AD8133_Closed	Frequency Response	AC analysis
AD8137	AD	ADI_Linear	Low Cost, Low Power 12-Bit Differential ADC Driver	AD8137	Pulse Test	Transient analysis
AD8139	AD	ADI_Linear	Ultra Low Noise Fully Differential ADC Driver	AD8139	Gain of 1	AC analysis
AD8206	AD	ADI_Linear	Single-Supply 42V System Difference Amplifier	AD8206		AC analysis
AD8214 *	AD	ADI_Linear	High Voltage Threshold Detector	AD8214 Test	Pulse Response	Transient Analysis
AD8330	AD	ADI_Linear	Low Cost DC to 150 MHz Variable Gain Amplifier	AD8330 App	Series of opamp test circuits	Transient and AC analysis
AD8331, AD8331_LNA,	AD	ADI_Linear	Single VGA with Ultralow Noise Preamp and Programmable Rin	AD8331	VGA Test Circuit	Transient analysis
AD8331_VGA	AD	ADI_Linear	Single VGA with Ultralow Noise Preamp and Programmable Rin	AD8332	VGA Test Circuit	Transient analysis
AD8332	AD	ADI_Linear	Dual VGA with Ultralow Noise Preamp and Programmable Rin	AD8332		Transient analysis
AD8333	AD	ADI_Linear	DC to 50 MHz Dual IQ Demodulator and Phase Shifter	ad8333p, AD8333TEST2, AD8333TEST3	General, Quadrature Phase Error, Channel To Channel Phase Error	Transient analysis
AD8334	AD	ADI_Linear	Quad VGA with Ultralow Noise Preamp and Programmable Rin	AD8334	VGA Test Circuit	AC analysis
AD8335	AD	ADI_Linear	Quad Low Noise, Low Cost Variable Gain Amplifier	AD8335_APP	Various Test Circuits	AC analysis
ADA4860	AD	ADI_Linear	High Speed, Low Cost, Op Amp	Test (ADA4860-1)	Frequency Response	AC analysis
ADA4861	AD	ADI_Linear	High Speed, Low Cost, Triple Op Amp	Test (ADA4861-3)	Frequency Response	AC analysis
ADA4862	AD	ADI_Linear	High Speed, G = +2, Low Cost, Triple Op Amp	Test (ADA4862-3)	Frequency Response	AC analysis
Power IC Models	Vendor	Library	Part Description	Application Schematic File Name	Topology	Analysis
RS117RH	Intersil	Intersil	Radiation Hardened Adjustable Positive Voltage Linear Regulator	RS117_RS117_AC		Load Step, Transient, AC
ISL6225	Intersil	Intersil	PWM Controller, Dual, Regulated Output Voltage 0.9V-5.5V	ISL6225Avg	Average model	AC analysis
ISL6520a	Intersil	Intersil	PWM Controller, +5V Input, VOUT 0.8V Min @ 1.5%, 300KHz	ISL6520ATRAN	synchronous buck regulator, low voltage high current	state space, bode plot
ISL6520Assa	Intersil	Intersil	Average model	ISL6225AVG		AC analysis
ISL6721	Intersil	Intersil	Single-Ended Current Mode PWM Controller	ISL6721TRAN		Startup transient
ISL6721Av	Intersil	Intersil	Single-Ended Current Mode PWM Controller, Average model	ISL6721AVG		AC analysis
ISL6740	Intersil	Intersil	PWM controller for half bridge and bus converter, See ISL6740switching.pdf	NA		
ISL6740Av	Intersil	Intersil	Average model, See ISL6740Average.pdf	ISL6740AVG		AC analysis
ISL6741Av	Intersil	Intersil	PWM controller for hard-switched full bridge and push-pull applications, Average model	ISL6741AVG		AC analysis
LT1242	Linear Tech	LT_Power	High Speed Current Mode Pulse Width Modulators	LT1242Test	Discontinuous Flyback	Startup transient
LT1242S	Linear Tech	LT_Power	State space average model			
LT1243	Linear Tech	LT_Power	High Speed Current Mode Pulse Width Modulators	LT1243	Discontinuous Flyback	Startup transient
LT1243S	Linear Tech	LT_Power	State space average model			
LT1244	Linear Tech	LT_Power	High Speed Current Mode Pulse Width Modulators	LT1244	Discontinuous Flyback	Startup transient
LT1244S	Linear Tech	LT_Power	State space average model			
LT1245	Linear Tech	LT_Power	High Speed Current Mode Pulse Width Modulators	LT1245	Discontinuous Flyback	Startup transient
LT1245S	Linear Tech	LT_Power	State space average model			
ML4863	Microlinear	Microlinear	Boost Regulators for Battery Powered Applications	ML4863Test	high efficiency flyback	steady state transient
Power MOS/IGBT Drivers	Vendor	Library	Part Description	Application Schematic File Name	Topology	Analysis
TL494 *	TI	TI_Power	PWM Control Circuit	TL494 STEADY STATE, TL494 STARTUP	Battery Charger	Transient
TL494Avg *	TI	TI_Power	Average TL494 model	TL494AVG_BODE	Battery Charger	Frequency Response
TPS40007 *	TI	TI_Power	Synchronous Buck,300kHz	TPS40007_APP	Synchronous Buck PWM Converter	Steady State,Start Up,Transient
TPS40007Avg *	TI	TI_Power	Synchronous Buck,300kHz Average model	TPS40007AVG	Synchronous Buck PWM Converter	Frequency Response
TPS40009 *	TI	TI_Power	Synchronous Buck,600kHz	TPS40009	Synchronous Buck PWM Converter	Steady State,Start Up,Transient
TPS40009Avg *	TI	TI_Power	Synchronous Buck,600kHz	TPS40009AVG	Synchronous Buck PWM Converter	Frequency Response
TPS40040 *	TI	TI_Power	Synchronous Buck Converter,300kHz	TPS40040_1_APP	Buck, TPS40040EVM	Steady State,Start Up,Transient, Frequency Response
TPS40040Avg *	TI	TI_Power	Synchronous Buck Converter,300kHz State-Space Average model	TPS40040Avg	Buck, TPS40040EVM	Frequency Response
TPS40041 *	TI	TI_Power	Synchronous Buck Converter,600kHz	TPS40040_1_APP	Buck,TPS40041EVM_001	Steady State,Start Up,Transient
TPS40041Avg *	TI	TI_Power	Synchronous Buck Converter,600kHz State-Space Average model	TPS40041avg	Buck,TPS40041EVM_001	Frequency Response
TPS40042 *	TI	TPS40042 (in Examples)TI/TPS40042	Low Pin Count, Low Vin, Synchronous Buck DCDC Controller with Tracking	tps40042	Buck	startup, fast startup, transient
TPS40055 *	TI	TI_Power	Wide-Input Synchronous Buck Controller	TPS40055	Buck, TPS40055EVM	Startup
40055MOD2 *	TI	TI_Power	State Space Model	TPS40055_SSA	Buck	State space AC analysis
TPS40060 *	TI	TI_Power	Wide-Input Synchronous Buck Controller	TPS40060_AppV2	slu183	Transient
TPS40060_Avg *	TI	TI_Power	Wide-Input Synchronous Buck Controller State-Space Average model	TPS40060_Average	slu183	Frequency Response
TPS40061 *	TI	TI_Power	Wide-Input Synchronous Buck Controller	TPS40061_AppV2	slu183	Transient
TPS40061_Avg *	TI	TI_Power	Wide-Input Synchronous Buck Controller State-Space Average model	TPS40061_Average	slu183	Frequency Response
TPS40075 *	TI	TI_Power	Midrange Input Synchronous Buck Controller With Voltage Feed-Forward	TPS40075_APPV1	slu254	Transient
TPS40075Avg *	TI	TI_Power	Midrange Input Synchronous Buck Controller With Voltage Feed-Forward State-Space Average model	TPS40075_Average Packaged	slu254	Frequency Response
TPS40090 *	TI	TI_Power	High Frequency Multi-phase Controller, Parameter TRU=1	TPS40090_1_APP	slu195	Transient
TPS40090Avg *	TI	TI_Power	High Frequency Multi-phase Controller State-Space Average model	TPS40090Avg	slu195	Frequency Response
TPS40091 * (use 40090, Set TRI = 0)	TI	TI_Power	High Frequency Multi-phase Controller State-Space Average model (disables tri-state feature) and TRI=0 for the TPS40091 (enables tri-state feature).	TPS40090_1_APP (average same as '090)	slu195	Transient
TPS40140 *	TI	TPS40140 (in Examples)TI/TPS40140	Stackable 2 Channel Multiphase or 2 Channel Independent Output Controller	tps40140	Buck, Stackable Multiphase	transient
TPS40180 *	TI	TPS40180 (in Examples)TI/TPS40180	Stackable 2 Channel Multiphase or 2 Channel Independent Output Controller	tps40180	Stackable Multiphase	transient

TPS40190 *	TI	TI Power	Synchronous Buck Converter	SLU0232	Buck,TPS40190EVM_001	Steady State,Start Up,Transient
TPS40190Avg *	TI	TI Power	Synchronous Buck Converter Average Model	TPS40190avg	Buck,TPS40190EVM_001	Frequency Response
TPS40192 *	TI	TI Power	Synchronous Buck w/P Good, 600kHz Separate State-Space Average model simulation provided	TPS40192_AppV4, TPS40192AVG	Buck,TPS40192EVM_001	Steady State,Start Up,Transient, Frequency Response
TPS40193 *	TI	TI Power	Synchronous Buck w/P Good, 300kHz Separate State-Space Average model simulation provided	TPS40193_APPV3, TPS40193 AVG	Buck,TPS40193EVM	Steady State,Start Up,Transient, Frequency Response
TPS40195 *	TI	TI Power	Synchronous Buck w/P Good and Sync Separate State-Space Average model simulation provided	TPS40195_SubV2, Average	Buck,TPS40195	Steady State,Start Up,Transient, Frequency Response
TPS40200 *	TI	TI Power	Wide-Input Non-Synchronous Buck Controller	APPLICATION (requires tps40200app.lib)	Buck, TPS40200EVM	Steady State,Start Up,Transient
TPS40200 avg *	TI	TI Power	Wide-Input Non-Synchronous Buck Controller State-Space Average model	TPS40200 average	Buck, TPS40200EVM	Frequency Response
TPS40210 0 *	TI	TI Power	Current Mode Boost	LED Application, TPS40210 Boost App	TPS40210EVM	Steady State,Start Up,Transient, Frequency Response
TPS40210Avg *	TI	TI Power	Current Mode Boost State-Space Average model	TPS40210AVG	TPS40210EVM	Steady State,Start Up,Transient, Frequency Response
TPS40211 *	TI	TPS40211 (in Examples)TI\TPS40211	Wide Input Range Current Mode Boost Controller	tps40211_trans_steady	Boost	transient
TPS40211 Startup *	TI	TPS40211 (in Examples)TI\TPS40211	Wide Input Range Current Mode Boost Controller	tps40211_trans_start	Boost	startup, transient
TPS40211Avg *	TI	TPS40211 (in Examples)TI\TPS40211	Wide Input Range Current Mode Boost Controller State Space Average Model	tps40211_avg	Boost	frequency response
TPS40222 *	TI	TI Power	1.6A 1.25MHz Buck State-Space Average model	TPS40222NEW	Buck,TPS40222EVM_001	Steady State,Start Up,Transient
TPS40222 Avg *	TI	TI Power	1.6A 1.25MHz Buck State-Space Average model	TPS40222_AVG	Buck,TPS40222EVM_001	Frequency Response
TPS51100 *	TI	TI Power	3A Sink/Source DDR Regulator	TPS51100_APP (two versions, one for AC, one for Transient)	Regulator,TPS51100EVM, sluu201	Transient, Frequency Response
TPS51113 *	TI	TPS51113 (in Examples)TI\TPS51113	4.5V to 13.2V Synchronous Buck Controller with High Current Gate Driver, 300kHz	tps51113	Buck	steady state prebias, startup, transient
TPS51116 *	TI	TPS51116 (in Examples)TI\TPS51116	DDR1, DDR2, DDR3 Switcher and LDO	tps51116	Buck,D-CAP Mode™	startup, transient
TPS51117 *	TI	TI Power	Synchronous Step-down On-Timer Controller	TPS51117 Steady State,TPS51117 Start UP	TPS51117EVM	Steady State,Start Up,Transient
TPS51124H *	TI	TI Power	Synchronous Step-down On-Timer Controller	BUCK_EVM_SLUU252_INTEL	HPA178(TPS51124EVM)	Start Up,Transient Average
TPS51124A *	TI	TI Power	Synchronous Step-down On-Timer Controller			
TPS51163 *	TI	TPS51163 (in Examples)TI\TPS51163	4.5V to 13.2V Synchronous Buck Controller with High Current Gate Driver, 600kHz	tps51163	Buck	steady state prebias, startup, transient
TPS51200 *	TI	TI Power	Sink/Source DDR Termination Regulator	TPS51200_APP, TPS51200_AVG		Transient, Frequency Response
TPS51315 *	TI	TPS51315 (in Examples)TI\TPS51315	3V to 14V, 10A Synchronous Step Down Converter with D-CAP™ Mode	tps51315	Buck	startup, transient
TPS54140 *	TI	TPS54140 (in Examples)TI\TPS54140	3.5V to 42V Input, 1.5 A Step Down SWIFT™ Converter with Eco-Mode™	tps54140	Buck	transient
TPS54160 *	TI	TPS54160 (in Examples)TI\TPS54160	3.5V to 60V, 1.5A Step Down SWIFT™ Converter with Eco-Mode™	tps54160	Buck, Inverting Buck/Boost	transient
TPS54283 *	TI	TI Power	Non Synchronous Converter W/integrated HS FET,300kHz 2A State-Space Average model	3PV3 AVERAGE, 5V AVERAGE	Buck,TPS54283	Frequency Response
TPS54286 *	TI	TI Power	Non Synchronous Converter W/integrated HS FET,600kHz 2A State-Space Average model	3PV3 AVERAGE, 5V AVERAGE	Buck,TPS54286	Frequency Response
TPS54383 *	TI	TI Power	Non Synchronous Converter W/integrated HS FET,300kHz 3A Separate State-Space Average model simulation provided	TPS54x3x, TPS54383AVG5V	Buck,TPS54383	Steady State,Start Up,Transient, Fault condition, Frequency Response
TPS54386 *	TI	TI Power	Non Synchronous Converter W/integrated HS FET,600kHz 3A State-Space Average model	3PV3 AVERAGE, 5V AVERAGE	Buck,TPS54386	Frequency Response
TPS54418 *	TI	TPS54418 (in Examples)TI\TPS54418	2.95V to 6V Input, 4A, 2MHz Synchronous Step Down SWIFT™ DCDC Converter	tps54418_trans	Buck	transient
TPS61020 *	TI	TPS61020 (in Examples)TI\TPS61020	Adjustable, 1.5-A Switch, 96% Efficient Boost Converter with Down-Mode, QFN-10	tps61020_trans	Boost	startup, steady state, transient
TPS61020 Avg *	TI	TPS61020 (in Examples)TI\TPS61020	Adjustable, 1.5-A Switch, 96% Efficient Boost Converter with Down-Mode, QFN-10 Average Model	tps61020avg	Boost	Frequency Response
TPS62240 Trans *	TI	TPS6224x (in Examples)TI\TPS6224x	2.25MHz 300mA Step-Down Converter in 2x2mm SON/TSOT23 Package	tps62240_trans	Buck	transient
TPS62242 Trans *	TI	TPS6224x (in Examples)TI\TPS6224x	2.25MHz 300mA Step-Down Converter in 2x2mm SON/TSOT23 Package	tps62242_trans	Buck	transient
TPS62243 Trans *	TI	TPS6224x (in Examples)TI\TPS6224x	2.25MHz 300mA Step-Down Converter in 2x2mm SON/TSOT23 Package	tps62243_trans	Buck	transient
TPS62260 Avg *	TI	TI Power	2.25MHz 600mA Step-Down Converter in 2x2mm SON/TSOT23 Package	tps62260_Avg	Buck	AC
TPS62260 *	TI	TI Power	2.25MHz 600mA Step-Down Converter in 2x2mm SON/TSOT23 Package	tps62260_trans	Buck	transient
TPS62261 *	TI	TI Power	2.25MHz 600mA Step-Down Converter in 2x2mm SON/TSOT23 Package	tps62261_trans	Buck	transient
TPS62262 *	TI	TI Power	2.25MHz 600mA Step-Down Converter in 2x2mm SON/TSOT23 Package	tps62262_trans	Buck	transient
TPS62263 *	TI	TI Power	2.25MHz 600mA Step-Down Converter in 2x2mm SON/TSOT23 Package	tps62263_trans	Buck	transient
TPS62290 *	TI	TPS62290 (in Examples)TI\TPS6229x	2.25MHz 1A Step-Down Converter in 2x2mm SON Package	tps62290_pspice_trans	Buck	transient
TPS62291 *	TI	TPS62291 (in Examples)TI\TPS6229x	2.25MHz 1A Step-Down Converter in 2x2mm SON Package	tps62291_trans	Buck	transient
TPS62293 *	TI	TPS62293 (in Examples)TI\TPS6229x	2.25MHz 1A Step-Down Converter in 2x2mm SON Package	tps62293_trans	Buck	transient
TPS65563 0 *	TI	TI Power	Integrated Photo Flash Charger and IGBT Driver	tps65563		transient
UA723	TI	TI Power	Precision Voltage Regulator	UA723Test	TIP42 Pass, switching	Transient, Steady State
UC1524	TI	TI Power	Advanced Regulating Pulse Width Modulators	UC1524 test	Buck	Startup,transient
UC1524A	TI	TI Power	Advanced Regulating Pulse Width Modulators			
UC1524B	TI	TI Power	Advanced Regulating Pulse Width Modulators			
UC1524S	TI	TI Power	Advanced Regulating Pulse Width Modulators			
UC1637	TI	TI Power	Switched Mode Controller for DC Motor Drive	UC1637SplitSupply, UC1637SingleSupply		
UC1823	TI	TI Power	High Speed PWM Controller	UC1823Test	Forward Converter	Startup,transient
UC1823A	TI	TI Power	High Speed PWM Controller			
UC1824	TI	TI Power	High Speed PWM Controller	UC1824Test		
UC1825	TI	TI Power	High Speed PWM Controller	UC1825Test		
UC1825A	TI	TI Power	High Speed PWM Controller			
UC1832 *	TI	TI Power	Precision Low Dropout Linear Controller	UC1832_3_APP	LDO	Steady State,Start Up,Transient, OC, Short, Shutdown, AC
UC1833 *	TI	TI Power	Precision Low Dropout Linear Controller - See LoadStep Page	UC1832_3_APP	LDO	Steady State,Start Up,Transient, OC, Short, Shutdown, AC
UC1842	TI	TI Power	Current Mode PWM Controller			
UC1842A	TI	TI Power	Current Mode PWM Controller			
UC1842AS	TI	TI Power	State Space Average Model	UC1842StateSpace, UC1842Test	Forward Converter	AC analysis
UC1842S	TI	TI Power	State Space Average Model			
UC1843	TI	TI Power	Current Mode PWM Controller			
UC1843A	TI	TI Power	Current Mode PWM Controller			
UC1843AS	TI	TI Power	State Space Average Model	UC1843ASTest	Flyback	AC analysis
UC1843S	TI	TI Power	State Space Average Model			
UC1844	TI	TI Power	Current Mode PWM Controller			
UC1844A	TI	TI Power	Current Mode PWM Controller			
UC1844AS	TI	TI Power	State Space Average Model			
UC1845	TI	TI Power	Current Mode PWM Controller			
UC1845A	TI	TI Power	Current Mode PWM Controller			
UC1845AS	TI	TI Power	State Space Average Model			
UC1845S	TI	TI Power	State Space Average Model			
UC1846	TI	TI Power	Current Mode PWM Controller	UC1846TRAN, UC1846_Package		Startup,transient
UC1846SSA *	TI	TI Power	Current Mode PWM Controller State Space Average Model			AC Analysis
UC1847 *	TI	TI Power	Current Mode PWM Controller			
UC1871	TI	TI Power	Resonant Fluorescent Lamp Driver	UC1871Test	Buck-fed push pull and flyback fluorescent ballast, current fed push-pull	Startup with initial conditions, transient
UC1872	TI	TI Power	Resonant Fluorescent Lamp Ballast Controller	UC1872Test	Buck-fed push pull and flyback fluorescent ballast, current fed push-pull	Startup with initial conditions, transient
UC1875	TI	TI Power	Phase Shift Resonant Controller	UC1875Test		Simple Switching test
UC1876	TI	TI Power	Phase Shift Resonant Controller			
UC1901 *	TI	TI Power	Isolated Feedback Generator	UC1901		Transient
UC1901Avg *	TI	TI Power	Isolated Feedback Generator	UC1901 AVERAGE		Frequency Response
UC3842B	On Semi	TI Power	Current Mode, See UC384x.pdf			
UC3843B	On Semi	TI Power	Current Mode, See UC384x.pdf		Forward Converter	Startup,transient
UC3844B	On Semi	TI Power	Current Mode, See UC384x.pdf			
UC3845B	On Semi	TI Power	Current Mode, See UC384x.pdf	UC384XFlyback	Flyback	
UC3854Bs	TI	TI Power	Enhanced High Power Factor Preregulator, State space	UC3854Test	Boost PFC	State Space Transient simulation
UC3854s	TI	TI Power	Enhanced High Power Factor Preregulator, State space			
UC39432 *	TI	TI Power	Precision Analog Controller	uc39432_app		Transient or AC analysis
UCC1806	TI	TI Power	Low Power, Dual Output, Current Mode PWM Controller	UCC1806Test		Simple Switching test
UCC28019 *	TI	TI Power	Continuous conduction Mode PFC			
UCC2813-0 *	TI	UCCX813-0 (in Examples)TI\UCCX813	Same model for transient and AC simulations	UCC28019 Packaged, UCC28019Avg	UCC28019EVM, sluu272	Transient (no startup), Frequency Response
UCC2813-1 *	TI	UCCX813-1 (in Examples)TI\UCCX813	Low Power Economy BiCMOS Current Mode PWM	uccx813-0	Boost, Flyback, Forward	Steady State, Start Up, Transient
UCC2813-2 *	TI	UCCX813-2 (in Examples)TI\UCCX813	Low Power Economy BiCMOS Current Mode PWM	uccx813-1	Boost, Flyback, Forward	Steady State, Start Up, Transient
UCC2813-3 *	TI	UCCX813-3 (in Examples)TI\UCCX813	Low Power Economy BiCMOS Current Mode PWM	uccx813-2	Boost, Flyback, Forward	Steady State, Start Up, Transient
UCC2813-4 *	TI	UCCX813-4 (in Examples)TI\UCCX813	Low Power Economy BiCMOS Current Mode PWM	uccx813-3	Boost, Flyback, Forward	Steady State, Start Up, Transient
UCC2813-5 *	TI	UCCX813-5 (in Examples)TI\UCCX813	Low Power Economy BiCMOS Current Mode PWM	uccx813-4	Boost, Flyback, Forward	Steady State, Start Up, Transient
UCC2817 *	TI	TI Power	BiCMOS Power Factor Pre Regulator - Average Model	Startup, Bode	UCC3817EVM	Steady state, start Up, Transient
UCC2818 *	TI	TI Power	BiCMOS Power Factor Pre Regulator - Average Model	Startup, Bode	UCC3817EVM	Steady State,Start Up,Transient
UCC2818 *	TI	TI Power	Same model for transient and AC simulations			
UCC289x Average *	TI	UCC2891_AVG (in Examples)TI\UCC28	Current Mode Active Clamp PWM Controller State-Space Average model	UCC289xAvg	Forward Converter, sluu178a	Frequency Response

UCC2891 *	TI	TI_Power	Current Mode Active Clamp PWM Controller Generic State-Space Average model simulation provided	UC289X_App, UCC289xAvg	Forward Converter, sluu178a	Steady State, Start Up, Transient, Frequency Response	
UCC2892 *	TI	TI_Power	Current Mode Active Clamp PWM Controller Generic State-Space Average model simulation provided				
UCC2893 *	TI	TI_Power	Current Mode Active Clamp PWM Controller Generic State-Space Average model simulation provided	UC289X_App, UCC289xAvg		Steady State, Start Up, Transient, Frequency Response	
UCC2894 *	TI	TI_Power	Current Mode Active Clamp PWM Controller Generic State-Space Average model simulation provided	UC289X_App, UCC289xAvg		Steady State, Start Up, Transient, Frequency Response	
UCC28C40 *	TI	TI_Power	BiCMOS Current Mode PWM	UCC28C40	SLU4274, 12 V Isolated Supply	Steady State, Start Up, Transient	
UCC28C40s *	TI	TI_Power	BiCMOS Current Mode PWM				
UCC28C41 *	TI	TI_Power	BiCMOS Current Mode PWM		Boost, Buck, Flyback, Forward	Steady State, Start Up, Transient	
UCC28C41s *	TI	TI_Power	BiCMOS Current Mode PWM				
UCC28C42 *	TI	TI_Power	BiCMOS Current Mode PWM		Boost, Buck, Flyback, Forward	Steady State, Start Up, Transient	
UCC28C42s *	TI	TI_Power	BiCMOS Current Mode PWM				
UCC28C43 *	TI	TI_Power	BiCMOS Current Mode PWM		Boost, Buck, Flyback, Forward	Steady State, Start Up, Transient	
UCC28C43s *	TI	TI_Power	BiCMOS Current Mode PWM				
UCC28C44 *	TI	TI_Power	BiCMOS Current Mode PWM				
UCC28C44s *	TI	TI_Power	BiCMOS Current Mode PWM	UCC28C4X Average	SLU4274, 12 V Isolated Supply	Frequency Response	
UCC28C45 *	TI	TI_Power	BiCMOS Current Mode PWM		Boost, Buck, Flyback, Forward	Steady State, Start Up, Transient	
UCC28C45s *	TI	TI_Power	BiCMOS Current Mode PWM				
UCC28600 *	TI	UCC28600	Quasi-Resonant Flyback Green-Mode Controller Low-Power BiCMOS Current-Mode PWM				
UCC3800 *	TI	TI_Power	Low-Power BiCMOS Current-Mode PWM				
UCC3801 *	TI	TI_Power	Low-Power BiCMOS Current-Mode PWM				
UCC3802 *	TI	TI_Power	Separate State-Space Average model simulation provided Low-Power BiCMOS Current-Mode PWM	UCC3802, UCC3802EVM Steady State	Flyback, Buck	Steady State with initial conditions	
UCC3803 *	TI	TI_Power	Separate State-Space Average model simulation provided Low-Power BiCMOS Current-Mode PWM	UCC3803 EVM, UCC3803 EVM average	Dual Output Boost Converter slua288		
UCC3804 *	TI	TI_Power	Low-Power BiCMOS Current-Mode PWM				
UCC3805 *	TI	TI_Power	Low-Power BiCMOS Current-Mode PWM				
UCC3809-1	TI	TI_Power	Economy Primary Controller				
UCC3809-2	TI	TI_Power	Economy Primary Controller including state space model Separate State-Space Average model simulation provided	FLYBACKStartup, FLYBACKSteady, FLYBACKLoop	Flyback	Startup, Bode Plot	
UCC3895_Average *	TI	UCC3895Average (in Examples)TIUC	BiCMOS Advanced Phase Shift PWM Controller Separate State-Space Average model simulation provided	UCC3895_Average	SLUU109A	Startup, Bode Plot	
UCC3895 *	TI	TI_Power	BiCMOS Advanced Phase Shift PWM Controller Separate State-Space Average model simulation provided	UCC3895Test, UCC3895, UCC3895 Transient	SLUU109A	Startup, Bode Plot	
Power IC Models							
	Vendor	Library	Part Description	Application Schematic File Name	Topology	Analysis	
CS322	On Semi	ON Power	High Speed PWM Controller	CS322Test	Sepic	Startup transient	
CS324	On Semi	ON Power	High Speed PWM Controller	CS324Test			
CS51220	On Semi	ON Power	Feed Forward Voltage Mode PWM Controller with Programmable Synchronization				
CS51411	On Semi	ON Power	1.5A, 260kHz Low Voltage Buck Regulators	CS51411Test	Buck	Transient, Steady State	
CS5155	On Semi	ON Power	CPU 5-Bit Synchronous Buck Controller	CS5155Test	VID Buck	Transient, Steady State	
CS5156	On Semi	ON Power	CPU 5-Bit Nonsynchronous Buck Controller	CS5156Test	VID Buck	Transient, Steady State	
CS5171	On Semi	ON Power	1.5 A, 280kHz Boost Positive Feedback Regulators	cs517x.dcn	Boost	Transient, Startup	
CS5172	On Semi	ON Power	1.5 A, 280kHz Boost Negative Feedback Regulators				
CS5173	On Semi	ON Power	1.5 A, 560kHz Boost Positive Feedback Regulators				
CS5174	On Semi	ON Power	1.5 A, 560kHz Negative Feedback Boost Regulators				
CS5307	On Semi	ON Power	Four-Phase VRM 9.0 Buck Controller				
CS5308	On Semi	ON Power	Two-Phase PWM Controller with Integrated Gate Drivers for VRM 8.5	CS5308Test	CS5308 VID Buck, CPU power	Transient, Startup	
CS5322	On Semi	ON Power	Two-Phase Buck Controller with Integrated Gate Drivers and 5-Bit DAC	CS5322EST	CS5322 VID Buck, CPU power	Transient, Startup	
CS5323	On Semi	ON Power	Three-Phase Buck Controller with 5-Bit DAC				
MC33063	On Semi	ON Power	1.5A, Step-Up/Down/Inverting Switching Regulator	MC33063BOOSTTEST, MC33063BUCKTest	Boost, Buck, and Buck Boost	Transient, Steady State	
MC33064	On Semi	ON Power	1.5A, Step-Up/Down/Inverting Switching Regulator				
MC33161	On Semi	ON Power	Universal Voltage Monitor	MC33161TEST	Buck	Transient, Steady State	
MC33201	On Semi	ON Power	Low Voltage, Rail-to-Rail, Single Operational Amplifier	MC3320XACTEST			
MC33202	On Semi	ON Power	Low Voltage, Rail-to-Rail, Single Operational Amplifier				
MC33204	On Semi	ON Power	1V, Rail-to-Rail, Single Operational Amplifier				
MC33262	On Semi	ON Power	Power Factor Controller	MC33262Test	Boost PFC, worldwide input PFC	Transient, Steady State	
MC33363	On Semi	ON Power	High Voltage Switching Regulator	AF2	Flyback	Transient, Startup	
MC33501	On Semi	ON Power	1V, Rail-to-Rail, Single Operational Amplifier	MC3350XACTEST			
MC33502	On Semi	ON Power	1V, Rail-to-Rail, Single Operational Amplifier				
MC33503	On Semi	ON Power	1V, Rail-to-Rail, Single Operational Amplifier				
MC34063	On Semi	ON Power	3.4A, Step-Up/Down/Inverting Switching Regulator	MC34063 FSPEC, MC34063BUCKBOOSTTest	Buck, Boost, Buck-Boost	Transient, Steady State	
MC34163	On Semi	ON Power	3.4A, Step-Up/Down/Inverting Switching Regulator	MC34163Test	Buck	Transient, Steady State	
NCP100	On Semi	ON Power	Adjustable 0.9-6V ±1.7% Output Voltage 0.1-20mA Shunt Regulator	NCP100ACTEST, NCP100PULSETest, NCP100SERIESPASS		AC, Transient	
NCP1000	On Semi	ON Power	Fixed-100kHz Switching Regulator with 700V / 0.5A Switch	NCP1000Test	High voltage switching regulator, low power off-line adapters. Worldwide input	Transient, Steady State	
NCP1000A	On Semi	ON Power	Fixed-100kHz Switching Regulator with 700V / 0.5A Switch, average model	NCP1000AVG#1, NCP1000AVG#2, NCP1000AVGTEST		AC analysis	
NCP1001	On Semi	ON Power	Fixed-100kHz Switching Regulator with 700V / 1A Switch				
NCP1002	On Semi	ON Power	Fixed-100kHz Switching Regulator with 700V / 1.5A Switch				
NCP1203AV	On Semi	ON Power	PWM Current-Mode Controller average model				
NCP1203P100	On Semi	ON Power	100kHz PWM Current-Mode Controller for Universal Off-Line Supplies				
NCP1203P40	On Semi	ON Power	40kHz PWM Current-Mode Controller for Universal Off-Line Supplies	NCP1203	Flyback	Transient, Steady State, AC analysis	
NCP1203P60	On Semi	ON Power	60kHz PWM Current-Mode Controller for Universal Off-Line Supplies				
NCP1400ASN19T1	On Semi	ON Power	Up to 100mA, 1.9V, 180kHz Boost PWM Switching Regulator with Enable	NCP1400ASN19Test	Boost	Transient, Steady State	
NCP1400ASN30T1	On Semi	ON Power	Up to 100mA, 3.0V, 180kHz Boost PWM Switching Regulator with Enable	NCP1400ASN30Test	Boost	Transient, Steady State	
NCP1400ASN50T1	On Semi	ON Power	Up to 100mA, 5.0V, 180kHz Boost PWM Switching Regulator with Enable	NCP1400ASN50Test	Boost	Transient, Steady State	
NCP1570	On Semi	ON Power	Low Voltage Synchronous Buck Controller	NCP1570Test	Synch Synchronous buck regulator, low voltage high current	Transient, Steady State	
NCP1571	On Semi	ON Power	Low Voltage Synchronous Buck Controller	NCP1571Test			
NCP1653	On Semi	ON Power	Compact, Fixed-Frequency, Continuous Conduction Mode PFC Controller	Switching	Current Mode PFC switching	Transient, Steady	
NCP1653AVg	On Semi	ON Power	Compact, Fixed-Frequency, Continuous Conduction Mode PFC Controller	Average	Current Mode PFC average		
NCV4269	On Semi	ON Power	Micropower 150mA LDO Linear Regulator	NCV4269 Line Transient, NCV4269 LoadTransient, NCV4269		Line Transient, Load Transient	
NCV8403 *	On Semi	ON Power	Self-Protected Low Side Driver with Temp and Current Limit, 42V, 14A	NCV8403Test		Various Test Circuits	
TL431	On Semi	ON Power	Adjustable 2.5-36V ±1% Tolerance 1-100mA Shunt Regulator	LDREGULATOR	linear reg	operating point	
TLV431A	On Semi	ON Power	Low Voltage Precision Adjustable Shunt Regulator	LDREGULATOR, TLV431Test		Transient, AC analysis	
HA16163	Renesas	Renesas	Synchronous Phase Shift Full-Bridge Control IC, 480 kHz, See Application Circuit.pdf				
LM117	National	Nat. Power	3-terminal adjustable regulator	LM117, LM177 AC		Load Step Transient, AC	
LM78540	National	Nat. Power	Universal Switching Regulator Subsystem	78540Test	Buck	Transient simulation, Startup	
LP2953	National	National_LDO	Adjustable Micropower Low-Dropout Voltage Regulator, See LP2953A.pdf	LM2953ATest	Output Impedance	AC or DC Analysis	
TNY256	PI	PI Power	TinySwitch with line under-voltage lockout, auto-restart	TNY256Test	Offline Flyback	Transient simulation, Startup	
Semiconductors							
	Vendor	Library	Part Description	Application Schematic File Name	Topology	Analysis	
FETs *: 57034, 57130, 57230, IRF7452, IRF7466, IRF6216, IRF8113, IRF7826, IRF7832, IRF7834, IRFRG20,	IR	IR_Semil	Power Mosfets. See Improved Mosfet Model.pdf				
CMPD2004, CMPD9003, CMPD6001, CMDSH2-3, CMDSH-3, CMPD6263, CMHS5-4, CMHS5-2L, CMHS1-40M, CMHS1-60M, CMHS5-40, CMHS5-60, CMHS2-40M, CMHS2-60M, CSHD10-45L	CS	CS_Diodes	Diodes, General				
CCL0035, CCL0130, CCL0300, CCL0500, CCL0750, CCL1000, CCL1500, CCL2000, CCL2700, CCL3500, CCL4500, CCL5750, CCLH800, CCLH100, CCLH120, CCLH150	CS	CS_Current_Diodes	JFET Current Regulators				
CMPTA44, CMPTA94, CMPT404A	CS	CS_BJTs	BJTs				
MT1020T	Marlow	Misc	Thermal-Electro Cooler, See TEC.pdf		TEC TEST, TEC_APP	Transient	
53259, 53111, 53124, 53253, 53250	Micropac	Micropac_Relays	Solid-State Relays, Switches, See 53111.pdf & 53250.pdf	53111Test, 53250Test	On/Off	Transient	

BCLJQ045, 8CLJQ045 Sub	IR	IR_Semi	Power Schottky, See 8CLJQ045.pdf			
RRRP1540	Fairchild	Misc	Soft Recovery Diode			
SSR8045P	SSDI	Misc	Power Schottky			
SFH615A-1, SFH615A-2, SFH615A-3, SFH615A-4	Vishay	Vishay	Optocoupler, Hi-Rel 5300Vrms			
SFH610A-1, SFH610A-2, SFH610A-3, SFH610A-4	Vishay	Vishay	Optocoupler, Hi-Rel 5300Vrms			
MOC8101, MOC8107, MOC8108	Fairchild	Fairchild	Optocoupler, Hi-Rel 5300Vrms			
CNY17F-1, CNY17F-2, CNY17F-3, CNY17F-4	Fairchild	Fairchild	Optocoupler, Hi-Rel 5300Vrms			
Misc BJTs *: MPS750, MMBT2222ALT1, MMBT2907A, PN2222A, 2N2907A, 2N2222A, MMBT3904TT1, 2N4401		Misc	BJTS			
Misc FETs *: MTD1N60E, MTD3022T4, HAT2168H, HAT2167H, HUF75345S3S, ST1415DN, PH6325L, PH2625L, HAT2165, SI7846DP, FDS6898A, SI4866DY, SI4862DY, SI7366DP, SI7866ADP, SI4840DY, SI4848DY, SI4850EY, SI7860ADP, SI7860ADP		Misc	Power Mosfets			
Misc Diodes *: 1N4001, 1N4148, 1N5617, 1N5806, 1N5819, 1N6642US, 1N752a, 1N962B, 30BQ040, B240, BAS16L, BAS19, BAS21, BAT54H, BAT54S, BAT54T1, BZX84C12, BZX84C13, BZX84C5V1, BZX84C6V2, ES1A-ES1M, KBPC808, MA22D18, MBR140p2, MBR164S, MBR20100CT, MBR320, MBR330, MBR340, MBR350, MBR360, MBR330T3, MUR1620, MUR1620, MUR260, MUR110i3, MURS120T3, MURS160, MURS260, RB081L20, SSR8045, UPR10, VDZ2R12B, BZX84C6V2, BAT54C		Misc	Diodes			
Magnetics	Vendor	Library	Part Description	Parameters	Application Schematic File Name	Topology
MP55xxx	Magnetics	AEIMPP55	Molypermalloy Powder core models, Part numbers 55014 - 55933			
MP58xxx	Magnetics	AEIMPP58	High Flux powder core models, Part numbers 58018 - 58933			
MPP	Generic	Mags	Molypermalloy Powder (MPP) core model. See also MP55 Series	N= # of turns U= Permeability AL= Inductance reference of the core mHy/1000T ² LM=Magnetic Path Length in cm DCR=Series resistance in ohms IC=Initial Conditions		
MPP2	Generic	Mags	High Flux powder core model. See also MP58 Series	N= # of turns U= Permeability AL= Inductance reference of the core mHy/1000T ² LM=Magnetic Path Length in cm DCR=Series resistance in Ohms VSEC=Core Capacity in Volt-Sec IVSEC Initial Condition in Volt-Sec LMAG Magnetizing Inductance in Henries LSAT Saturation Inductance in Henries FEDDY Frequency when LMAG Reactance = Loss Resistance in Hz		
Core	Generic	Mags	Generic Saturable Core model. See Magnetics Modeling.pdf Ex. VSEC=25U IVSEC=-25U LMAG=10MHY LSAT=20UHY FEDDY=25KHZ	ACORE=Magnetic cross section area in cm ² LPATH=Magnetic path length in cm FEDDY=Frequency when Lmag Reactance=Loss resistance UMAX=Maximum Permeability, dB/dH USAT=Saturation Permeability, dB/dH BR=Flux density in gauss at H = 0 for saturated B-H loop BI=Initial Flux density, default = 0 N=Number of Turns	SATURABLE_CORE_TEST_227	
CoreX	Generic	Mags	Generic Saturable Core model. See Magnetics Modeling.pdf	SVSEC=Volt-sec at Saturation = BSAT * AE * N IVSEC=Volt-sec Initial Condition = B * AE * N LMAG=Unsaturated Inductance = $\mu O \cdot N^2 \cdot AE / LM$ LSAT=Saturated Inductance = $\mu O \cdot N^2 \cdot AE / LM$ IHYST=Magnetizing I @ 0 Flux = H * LM / N RFEDDY=Eddy Current Loss Resistance Series resistance and turns ratio		
CoreHyst	Generic	Mags	Generic Saturable Core model. See Magnetics Modeling.pdf Ex. SVSEC=25U IHYST=10m IVSEC=1 LMAG=10MHY LSAT=20UHY RFEDDY=25KHZ			
Transformers	Generic	Mags	Transformers, Various topologies, 1.1, Center tapped, etc.		Dualout, Triout	
Generic Models	Vendor	Library	Description	Parameters	Application Schematic File Name	Topology
Sandler State Space Average Models						
Flyback	Generic	PowerSS	State Space average model for Flyback converters.	L=Primary inductance in Henries NC=Current transformer turns ratio NP=Power transformer turns ratio F=Switching frequency in Hz EFF=Efficiency RB=Current transformer burden resistor in ohms TS=Propagation delay time in the current loop in secs		
Forward	Generic	PowerSS	State Space average model for Forward converters.	L=Primary inductance in Henries NC=Current transformer turns ratio NP=Power transformer turns ratio F=Switching frequency in Hz EFF=Efficiency RB=Current transformer burden resistor in ohms TS=Propagation delay time in the current loop in secs		
Boost	Generic	PowerSS	State Space average model for Boost converters.	L=Primary inductance in Henries F=Switching frequency in Hz NC=Current transformer turns ratio NP=Power transformer turns ratio EFF=Efficiency RB=Current transformer burden resistor in ohms TS=Propagation delay time in the current loop in secs		
Basso PWM Switching Models	Vendor	Library	Description	Parameters	Application Schematic File Name	Topology
PWMCMVM	Generic	Basso	PWM switching model	RE=Parasitic resistance in Ohms	PWM SWITCH.DSN	Various
PWMDCMVM	Generic	Basso	PWM switching model	L=Primary inductance in Henries FS=Switching frequency in Hz	PWM SWITCH.DSN	Various
PWMVM	Generic	Basso	PWM switching model	L=Primary inductance in Henries FS=Switching frequency in Hz RE=Parasitic resistance in Ohms	PWM SWITCH.DSN	Various
PWCMC	Generic	Basso	PWM switching model	L=Primary inductance in Henries FS=Switching frequency in Hz RI=Current Sense Element SE=External ramp in V/s	PWM SWITCH.DSN	Various
PWMBCMVM	Generic	Basso	PWM switching model	L=Primary inductance in Henries	PWM SWITCH.DSN	Various
PWMBCMCM	Generic	Basso	PWM switching model	L=Primary inductance in Henries RI=Current Sense Element	PWM SWITCH.DSN	Various
PWMBCMCM2	Generic	Basso	PWM switching model	L=Primary inductance in Henries RI=Current Sense Element	PWM SWITCH.DSN	Various
Other Generic Models	Vendor	Library	Part Description	Parameters	Application Schematic File Name	Topology
CPWR	Generic	Misc	Constant Power Load	VKnee=Load is resistive below knee and then constant power for all voltages above that Power=Constant Power		

				Ron=On Resistance Roff=Off resistance VT=Threshold voltage (On/Off @ VT+VH, VT-VH) VH=hysteresis voltage		
SWhyste	Generic	Misc	Switch with hysteresis			
CAT5	Generic	Misc	Category 5 Cable	L=Length in meters		
DBEHAV	Generic	Misc	Soft Recovery Diode, See subcircuit netlist for more information	IS1, TM, TAU, RMO, VTA, CAP, ISE		
				C= capacitance ESR1k= ESR at 1kHz ESL=Series Inductance RLEAK=Leakage Resistance IC=Initial Conditions		
Tant,	Generic	TantCap	Tantalum Capacitor Model with and w/o Initial Conditions, See Capacitor.pdf			
DeadDrv	Generic	Dead	Dead Time for Synchronous Rectification, variable output voltage	DT = Dead time in seconds	DeadTime, HalfBridge	Drive Waveform Test, Half Bridge Setup
DeadSync	Generic	Dead	Dead Time for Synchronous Rectification	RS = GateUpper to SourceUpper resistance	DeadSync, DeadSyncRect	Sample Sync Rect