

Modelithics Complete Library (ADS)

Version 8.0 Release Notes

August 2011

The models listed below were added to Version 8.0 of the Modelithics CLR Library.

Vendor	Vendor Part Number	Modelithics Model Part Number	Body Style	Part Values	Features
ATC	545L	CAP-ATC-545L-101	0402	100 nF	BB, SS, PS
ATC	545L	CAP-ATC-545L-201	0402	100 nF	BB
ATC	550L	CAP-ATC-550L-001	0402	100 nF	BB, SS, PS
ATC	550L	CAP-ATC-550L-101	0402	100 nF	BB
AVX	GX02ZZ104MAT2	CAP-AVX-GX02-001	0402	100 nF	BB, SS, PS
AVX	GX02ZZ104MAT2	CAP-AVX-GX02-101	0402	100 nF	BB
CoilCraft	0201DS	IND-CLC-0201-001	0201	0.5-14 nH	SS, PS, VS
CoilCraft	0302CS	IND-CLC-0302-001	0302	0.67-34 nH	SS, PS, VS
CoilCraft	0604HQ	IND-CLC-0604-101	0604	1.15-10.4 nH	SS, VS
EMC/FRF Labs	CRxxxxD	RES-FRF-CRxxxxD-001	0402-1010	100 Ohms	VS
EMC/FRF Labs	CTxxxxD	RES-FRF-CTxxxxD-001	0402-1310	50 Ohms	VS
Murata	GRM033	CAP-MUR-0201-101	0201	0.5-10,000 pF	SS, VS
Murata	LQP02T	IND-MUR-01005-001	01005	0-4-18 nH	SS, PS, VS
TDK	MLG0603S	IND-TDK-0201-101	0201	0.9 – 100 nH	SS, VS
Temex Ceramics	CLX	CAP-TMX-2225-001	2225	1.0-4700 pF	VS
Temex Ceramics	CLE	CAP-TMX-4040-001	4040	1.0-8200 pF	VS

BB: Broad Band Capacitor
 OS: Orientation Scalable
 PS: Pad Scalable
 SS: Substrate Scalable
 VS: Value Scalable/Selectable

For information on obtaining Version 8.0, please contact sales@Modelithics.com.

For help in upgrading please contact support@Modelithics.com.

The models listed below were updated in Version 8.0 of the Modelithics CLR Library.

Modelithics Model Part Number	Vendor	Vendor Part Number	Update
CAP-ATC-0402-001	ATC	600L	Minor model performance update.
CAP-ATC-0603-101	ATC	600S	Datasheet updated to reflect model performance change in v5.0.
CAP-ATC-0805-001	ATC	600F	Datasheet typo between first and second page indicating the number of part values corrected.
CAP-ATC-0805-101	ATC	600F	Minor model performance update.
CAP-ATC-100B-001	ATC	100B	Minor model performance update.
CAP-ATC-545L-001	ATC	545L	Minor model performance update.
CAP-ATC-800A-001	ATC	800A	Minor model performance update.
CAP-ATC-800B-001	ATC	800B	Minor model performance update.
CAP-AVX-0603-001	AVX	ACCU-F	Minor model performance update.
CAP-AVX-0603-002	AVX	ACCU-P	Minor model performance update.
CAP-AVX-AQ12-001	AVX	AQ12	Minor model performance update.
CAP-DLI-0603-002	DLI	C06BL	Datasheet updated to reflect model update in v5.1.3 to pad scalable.
CAP-DLI-0805-002	DLI	C08BL	Datasheet updated to reflect model update in v5.1.3 to pad scalable.
CAP-DLI-C11UL-001	DLI	C11UL	Datasheet updated to reflect model update in v5.1.3 to pad scalable.
CAP-DLI-OPTI-001	DLI	Opticap	Datasheet updated to reflect model update in v5.0 to pad scalable.
CAP-EPC-0402-001	Epcos	B37920K5	Datasheet typo between first and second page indicating the number of part values corrected.
CAP-EPC-0603-001	Epcos	B37930K5	Datasheet updated to indicate that the model to measured graphs include additional microstrip components.
CAP-JOH-0402-001	Johanson	R07S	Datasheet updated to better reflect model performance.
CAP-KMT-0402-001	Kemet	C0402(COG)	Minor model performance update.
CAP-KMT-0402-002	Kemet	C0402(X7R)	Minor model performance update.
CAP-KMT-0402-003	Kemet	C0402(X5R)	Minor model performance update.
CAP-KMT-0603-001	Kemet	C0603	Minor model performance update. Datasheet typo between first and second page indicating the number of part values corrected.
CAP-KMT-0805-003	Kemet	C0805(COG)	Minor model performance update.
CAP-KMT-0805-004	Kemet	C0805(X7R)	Minor model performance update.
CAP-KMT-0805-005	Kemet	C0805(X5R)	Minor model performance update.
CAP-KMT-0805-006	Kemet	C0805(BX)	Minor model performance update.
CAP-MUR-01005-002	Murata	GRM022(X5R,X7R)	Minor model performance update.
CAP-MUR-0201-001	Murata	GRM033	Marked as obsolete. Use CAP-MUR-0201-101 instead.
CAP-MUR-0402-003	Murata	GRM155R71E	Datasheet updated to indicate the correct capacitance value used in graphs.
CAP-MUR-0402-101	Murata	GRM1555C1H	Minor model performance update.
CAP-MUR-0402-102	Murata	GRM155R71H	Datasheet updated to indicate the correct capacitance value used in graphs.
IND-CLC-0402-101	CoilCraft	0402CS	Datasheet typo between first and second page indicating the number of part values corrected.
IND-CLC-0603-102	CoilCraft	0603HP	Datasheet typo between first and second page indicating the number of part values corrected.
IND-CLC-MINI-001	CoilCraft	AxxT	Missing 12.5 nH plot in substrate plot on second page of datasheet added.

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Modelithics Model Part Number	Vendor	Vendor Part Number	Update
IND-MUR-0603-001	Murata	LQW18A	Corrected plot title indicating substrate height in datasheet.
IND-TDK-0201-001	TDK	MLG0603S	Marked as obsolete. Use IND-TDK-0201-101 instead.
RES-ATC-CZ13725T0050-001	ATC	CZ13725T0050GBK	Datasheet updated to better reflect model performance.
RES-ATC-CZ13737T0050-001	ATC	CZ13737T0050GBK	Datasheet updated to better reflect model performance.
RES-KOA-0402-001	KOA	RK73B1E	Datasheet typo between first and second page indicating the number of part values corrected.
RES-PAN-ERJ2-001	Panasonic	ERJ2GE0R00X	Minor model performance update.

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The models listed below were added to Version 8.0 of the Modelithics NLD Library.

Vendor	Vendor Part Number	Modelithics Model Part Number	Device Type	Body Style	Features
Micrometrics	MMP7065-11	PIN-MIM-MMP-001	PIN		NL
Micrometrics	MMP7065-11	PIN-MIM-MMP-101	PIN		NL

NL: Non-Linear
 SS: Substrate Scalable
 TS: Temperature Scalable
 FL: Flicker Noise (1/F)

The models listed below were updated in Version 8.0 of the Modelithics NLD Library.

Modelithics Model Part Number	Vendor	Vendor Part Number	Update
PIN-INF-SC79-001	Infineon	BAR88-02V	Incorrect plot label on datasheet. Graph represent bias scaling not substrate.
PIN-MAC-CS1072-001	MA-COM	MA44PH235-1072	Updated RI graph on datasheet.
PIN-MIM-0603-001	MicroMetrics	MSSP25250-70	Added VDC voltage to bias scalable S-Parameters.
SKD-AGT-T143-001	Avago	HSMS-2829	Updated large signal S-Parameters in datasheet.
SKD-INF-ST23-001	Infineon	BAS 40	Model updated to improve performance, datasheet updated to match.
SKD-INF-ST23-002	Infineon	BAS 40-04	Datasheet update to the large signal S-Parameters.
SKD-INF-ST23-003	Infineon	BAS 40-05	Gain compress curve updated in datasheet.
VAR-INF-D323-001	Infineon	BB535	Correct temperature labels in the IV figure of the datasheet.
VAR-INF-D323-002	Infineon	BB639	Model updated to improve performance, datasheet updated to match.
VAR-INF-SC80-001	Infineon	BBY51-02W	Added temperature setting for DCIV graph in datasheet.
VAR-SKY-D323-001	Skyworks	SMV1147	Correct substrate height value on datasheet graph.
VAR-TSH-TG1A-003	Toshiba	1SV329	Corrected voltage bias conditions for S-Parameter plots.
VAR-TSH-TG1A-004	Toshiba	1SV325	Updated DCIV curve and labeling in datasheet.
VAR-TSH-TG1A-005	Toshiba	1Sv280	Added 1/f noise and updated datasheet.

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The models listed below were added to Version 8.0 of the Modelithics NLT Library.

Vendor	Vendor Part Number	Modelithics Model Part Number	Device Type	Body Style	Features
Avago	ATF33143	HMT-AVA-ATF33143	PHEMT	SC-70	NL, NP
Avago	ATF551M4	HMT-AVA-ATF551M4	PHEMT	MiniPak 1.4x1.2	NL, NP
Avago	AT32032	BJT-AVA-AT32032	BJT	Sot323	NL, SS, NP
Microsemi	SD1495-03	BJT-MSI-SD1495	BJT		NL
Mitsubishi	RD07MUS2B	MOS-MIT-RD07MUS2B	LDMOSFET		NL
Mitsubishi	RD01MUS1	MOS-MIT-RD01MUS1-101	MOSFET	SOT89	NL, SS, TS, IM
Nitronex	NPTB00004	HMT-NIT-NPTB00004	PHEMT	Flange Mount	NL, LP, TS
Nitronex	NPT1012	HMT-NIT-NPT1012	GaN HEMT		NL, TS, LP
NXP	BF1211	DGMOS-PHL-BF1211			NL, TS, LP
NXP	BF1212	DGMOS-PHL-BF1211			NL, TS, LP
Semicoa	2C2857	BJT-SEM-2C2857	BJT	Chip	NL

NL: Non-Linear
 NP: Noise Parameter
 SS: Substrate Scalable
 TS: Temperature Scalable

The models listed below were updated in Version 8.0 of the Modelithics NLT Library.

Modelithics Model Part Number	Vendor	Vendor Part Number	Update
BJT-AGT-AT64023	Avago	AT64023	Corrected allowed H/Er ratio range to prevent warnings on valid substrates.
BJT-NEC-NE85633	NEC	NE85633	Updated substrate information for the noise curves.
BJT-PHL-PBR941	NXP	PBR941	Model updated to improve performance, datasheet updated to match.
HBT-NEC-NESG303100	NEC	NESG303100G	Model updated to improve performance, datasheet updated to match.
HMT-AVA-ATF33143	Avago	ATF33143	Fixed Via Deembed parameter function.
HMT-EUD-EGN030MK	Eudyna	EGN030MK	Model updated to improve performance, datasheet updated to match.
HMT-EXC-EPA1200A	Excelics	EPA1200A	Updated datasheet to correct Vgs range in legend of DCIV graph.
HMT-NEC-NE3210S01	NEC	NE3210S01	Model updated to improve performance, datasheet updated to match.
JFT-PHL-BF862	NXP	BF862	Model updated to improve performance, datasheet updated to match.
MES-FUJ-FLL120MK	Fujitsu	FLL120MK	Updated datasheet to correct Vgs range in legend of DCIV graph.
MES-FUJ-FLL800IQ	Fujitsu	FLL800IQ	Updated datasheet to show model setup figure for data comparison.
MES-MWT-MWT7	MWT	MWT-7	Added the noise model and updated datasheet.
MOS-INF-BF999	Infineon	BF999	Added setup conditions to the S-parameter graph in the datasheet.
MOS-INF-PTFA043002E	Infineon	PTFA043002E	Model updated to improve performance.
MOS-MIT-RD01MUS1	Mitsubishi	RD01MUS1	Model updated to improve performance, datasheet updated to match.
MOS-MIT-RD07MVS1	Mitsubishi	RD07MVS1	Datasheet updated to better reflect model performance.
MOS-MOT-MRF1513	Motorola	MRF1513	Model updated to improve performance, datasheet updated to match.
MOS-NEC-NE5511279A	NEC	NE5511279A	Model update to add bond wire effect.
MOS-NEC-NE5520379A	NEC	NE5520379A	Model update to add bond wire effect.

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Modelithics Model Part Number	Vendor	Vendor Part Number	Update
MOS-NEC-NE552R679A	NEC	NE552R679A	Model update to add bond wire effect.
MOS-SRZ-SLD1083CZ	Sireza	SLD1083CZ	Corrected bias dependent voltage legend on datasheet.
MOS-SRZ-SLD2083CZ	Sireza	SLD2083CZ	Corrected bias dependent voltage legend on datasheet.

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The models listed below were added to Version 8.0 of the Modelithics SLC Library.

Vendor	Vendor Part Number	Modelithics Model Part Number	Device Type	Body Style	Features
Avago	MGA635P8	AMP-AVA-MGA635P8-001	Amplifier		
MA-COM	MASWSS0204	SWT-MAC-MASWSS0204-001	Switch	PHEMT GaAs IC SPDT	SS
RFMD	RF2878	AMP-RFMD-RF2878-001	Amplifier	IC	XP
RJR Polymers	QFN01	PKG-RJR-QFN01-001	Package	LCP	

SS: Substrate Scalable
 XP: X-Parameter model

The models listed below were updated in Version 8.0 of the Modelithics SLC Library.

Modelithics Model Part Number	Vendor	Vendor Part Number	Update
AMP-AVA-MGA86576-001	Avago	MGA86576	Created 'dummy' s2d file to bypass ADS error.
AMP-NEC-UPC8179TK-001	NEC	UPC8179TK	Updated and corrected model parameters.
AMP-TRI-TGA8344-001	Triquint	TGA8344	Created 'dummy' s2d file to bypass ADS error.
AMP-TRI-TGA8399B-001	Triquint	TGA8399B	Updated P2D file to improve performance.
AMP-TRI-TGA8810-001	Triquint	TGA8810	Created 'dummy' s2d file to bypass ADS error.
MIX-MAX-2681-001	Maxim	MAX2681	Model updated to improve performance, datasheet updated to match.
TPX-MUR-LMTP33AA148-001	Murata	LMTP33AA148	Corrected manufacturer part number and renamed model.
XFR-TKO-617B-001	Toko	617DB-1007	Updated datasheet to reflect model performance.
XFR-VAN-10025-001	Vanguard	100205	Corrected S61 representation in datasheet.

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The models listed below were added to Version 8.0 of the Modelithics SELECT Library.

Vendor	Vendor Part Number	Modelithics Model Part Number	Device Type	Body Style	Features
Nitronex	NPT1012	HMT-NIT-NPT1012-S	Transistor		NL, NP, FL
Gowanda	C100FL	IND-GOW-C100FL-001-S	Inductor	Conical	VS, SP
Gowanda	C100SM	IND-GOW-C100SM-001-S	Inductor	Conical	VS, SP
Gowanda	C225FL	IND-GOW-C225FL-001-S	Inductor	Conical	VS, SP
RJR Polymers	QFN01	PKG-RJR-QFN01-001-S	Package	LCP	
Temex Ceramics	CLX	CAP-TMX-2225-001	Capacitor	2225	VS
Temex Ceramics	CLE	CAP-TMX-4040-001	Capacitor	4040	VS

SS: Substrate Scalable
 VS: Value Scalable/Selectable

The models listed below were updated in Version 8.0 of the Modelithics SELECT Library.

Modelithics Model Part Number	Vendor	Vendor Part Number	Update
CAP-ATC-0603-001-S	ATC	600S	Datasheet updated to be within model boundaries.
CAP-MUR-0805-001-S	Murata	GRM2165C2A	Datasheet updated to be within model boundaries.
DGMOS-PHL-BF1212-S	NXP	BF1212	Corrected temp values for DCIV curves in datasheet.
HBT-NEC-NESG303100-001-S	NEC	NESG303100G	Model updated to improve performance, datasheet updated to match.
IND-CLC-0603-001-S	CoilCraft	0603CS	Datasheet updated to be within model boundaries.
IND-TKO-0805-002-S	Toko	LL2012-FHL	Datasheet updated to be within model boundaries.
RES-KOA-0603-001-S	KOA	RK73B1J	Datasheet updated to be within model boundaries.
SKD-INF-ST23-001	Infineon	BAS 40	Model updated to improve performance, datasheet updated to match.

Additional Notes:

- Version 8.0 is compatible with ADS2011 as well as previous versions.
- All documented examples were converted to workspaces.
- An installer is available for Linux.
- Upgraded to FlexIm version 11.9.1. Now supports Windows 7 and Wibu key dongles.
- Wibu key dongle support resolves the Hasp 64bit single dongle issue. Up to 3 Wibu keys can be used at a time on a single computer on both 32 and 64bit Windows systems.

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