



Modelithics COMPLETE Library for AWR Microwave Office (MWO)

Version 7.0 Release Notes
April, 2010

With version 7.0 there is now a single Modelithics COMPLETE Library installer for all sub-libraries, including CLR, NLD, NLT, and SLC Libraries with user options to select features to install.

The Modelithics CLR Library models listed below were updated in Version 7.0 .

Vendor	Vendor Part Number	Modelithics Model Part Number	Body Style	Part Values	Features
Murata	GRM0335C1E	CAP-MUR-0201-102	0201	0.5-100 pF	SS, VS

The Modelithics CLR Library models listed below were added to Version 7.0

Vendor	Vendor Part Number	Modelithics Model Part Number	Body Style	Part Values	Features
ATC	700B	CAP-ATC-700B-001	0.11 x 0.11	0.1-5100 pF	SS, PS, VS
ATC	800A	CAP-ATC-800A-001	0.055 x 0.055	0.1-100 pF	SS, PS, VS, OS
ATC	800B	CAP-ATC-800B-001	0.11 x 0.11	0.5-1000 pF	SS, PS, VS, OS
AVX	ACCU-F	CAP-AVX-0603-001	0603	3.3pF – 1uF	SS, PS, VS
AVX	ACCU-P	CAP-AVX-0603-002	0603	0.1-10 pF	SS, PS, VS
AVX	AQ12	CAP-AVX-AQ12-001	0.055 x 0.055	110-1000 pF	SS, PS, VS
Kemet	C0402(COG)	CAP-KMT-0402-001	0402	10-100 pF	SS, PS, VS
Kemet	C0402(X7R)	CAP-KMT-0402-002	0402	470-100000 pF	SS, PS, VS
Kemet	C0402(X5R)	CAP-KMT-0402-003	0402	0.1-1 uF	SS, PS, VS
Kemet	C0603	CAP-KMT-0603-001	0603	0.75-1000000 pF	SS, PS, VS
Kemet	C0805(COG)	CAP-KMT-0805-003	0805	15-1000 pF	SS, PS, VS
Kemet	C0805(X7R)	CAP-KMT-0805-004	0805	220pF – 1uF	SS, PS, VS
Kemet	C0805(X5R)	CAP-KMT-0805-005	0805	2.2-4.7 uF	SS, PS, VS
Kemet	C0805(BX)	CAP-KMT-0805-006	0805	470-4700 pF	SS, PS, VS
Murata	GRM022(COG)	CAP-MUR-01005-001	01005	0.2-100 pF	SS, VS
Murata	GRM022(X5R,X7R)	CAP-MUR-01005-002	01005	100-10000 pF	SS, VS
Murata	GRM1555C1H	CAP-MUR-0402-101	0402	0.2-160 pF	SS, PS, VS
Murata	GRM155R71H	CAP-MUR-0402-102	0402	220-4700 pF	SS, PS, VS
Presidio	0505	CAP-PRS-0505-001	0505	0.33-250 pF	SS, VS
CoilCraft	0603HP	IND-CLC-0603-102	0603	1.8-390 nH	SS, VS
Murata	LQW18A	IND-MUR-0603-101	0603	6.8-220 nH	SS, PS, VS
Murata	LQP18M	IND-MUR-0603-002	0603	1.3-100 nH	SS, PS, VS

For information on obtaining Version 7.0, please contact sales@Modelithics.com.
For help in upgrading please contact support@Modelithics.com.

Vendor	Vendor Part Number	Modelithics Model Part Number	Body Style	Part Values	Features
Taiyo Yuden	HK1005	IND-TAI-0402-101	0402	1.8-47 nH	SS, PS, VS
Taiyo Yuden	HK1008	IND-TAI-0603-001	0603	1.5-270 nH	SS, PS, VS
TDK	C0603(COG)	CAP-TDK-0201-201	0201	2.2-20 pF	SS, PS, VS

SS: Substrate Scalable
VS: Value Scalable
PS: Pad Scalable

The Modelithics NLD Library models listed below were added to Version 7.0

Vendor	Vendor Part Number	Modelithics Model Part Number	Device Type	Body Style	Features
Skyworks	SMV1147	VAR-SKY-D323-001	Varactor	SOD-323	NL, SS, TS, FL

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

The Modelithics NLT Library models listed below were added to Version 7.0

Vendor	Vendor Part Number	Modelithics Model Part Number	Device Type	Body Style	Features
Freescale	MRF9030	MOS-FRS-MRF9030	MOSFET	Flange Mount	NL
Infineon	PTF080101S	MOS-INF-PTF080101S	LD MOSFET	SMD	NL
Infineon	PTA043002E	MOS-INF-PTA0043002E	LD MOSFET	Flange Mount	NL

NL: Non-Linear

The Modelithics SLC Library was introduced in Version 7.0 with the models listed below included

Vendor	Vendor Part Number	Modelithics Model Part Number	Device Type	Body Style	Features
Avago	MGA86576	AMP-AVA-MGA86576-001	Amplifier	Packaged	NL, NP, TS, IM
Triquint	TGA8344	AMP-TRI-TGA8344-001	Amplifier	MMIC	NL, NP
Triquint	TGA8399B-SCC	AMP-TRI-TGA8399B-001	Amplifier	MMIC	NL, NP, TS, IM
Triquint	TGA8810-SCC	AMP-TRI-TGA8810-001	Amplifier	MMIC	NL, TS, IM
Barry	AK0405CB	ATT-BAI-0405-001	Attenuator	Chip	SS, VS
Barry	AT0504CB	ATT-BAI-0904-001	Attenuator	Chip	SS, VS
AVX	CP0603	CPL-AVX-CP0603-001	Coupler		SS
EMC Technology	CE x xxx N xxx SMTF	FEQ-FRF-CExxxxxN0xxSMTF-001	Equalizer	Chip	VS
Mini-Circuits	HFCN-2700	HPF-MCL-2700-001	Filter, High-Pass	Ceramic	SS
Murata	DRM020KER93	RSN-MUR-930-001	Resonator		SS
Murata	DRR030KE1R2	RSN-MUR-1200-001	Resonator		SS

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Vendor	Vendor Part Number	Modelithics Model Part Number	Device Type	Body Style	Features
Murata	DRR0201G350	RSN-MUR-1350-001	Resonator		SS
Murata	DRR02011G45	RSN-MUR-1450-001	Resonator		SS
Murata	DRR0204G100	RSN-MUR-4100-001	Resonator		SS
UBE	AO-K016-08	RSN-UBE-700-001	Resonator		SS
UBE	K020-03	RSN-UBE-1350-001	Resonator		SS
Toko	617DB-1007	XFR-TKO-617DB-001	Transformer		SS
Vanguard	100205	XFR-VAN-100205-001	Transformer		SS

SS: Substrate Scalable
NL: Non-Linear
NP: Noise Parameter
IM: 3rd Order IMD validated
TS: Temperature Scalable
VS: Part Value Scalable/Selectable

The Modelithics SELECT Library models listed below were added as part of Version 7.0 Upgrade

Vendor	Vendor Part Number	Modelithics Model Part Number	Device Type	Body Style	Features
Gowanda	CC0603	IND-GOW-0603-001-S	Inductor	0603	VS
Mini-Circuits	HFCN-2700	HPF-MCL-2700-001-S	Filter, High-Pass	Ceramic	SS
Nitronex	NPT1012	HMT-NIT-NPT1012-001-S	GaN HEMT		NL

SS: Substrate Scalable
NL: Non-Linear
VS: Part Value Scalable/Selectable

Additional Notes:

- Additional licensing capability was added to version 7.0 to enable multi-simulator licensing for the Modelithics Complete Library.
- User selectable installer options for CLR sub-libraries: Micro, Small, Large and X-Large parts was added.
- Added models from the SLC library.

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