



Modelithics Complete Library (ADS)

Version 7.0 Release Notes

February, 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 models listed below were updated in Version 7.0 of the Modelithics CLR Library.

| 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 models listed below were added to Version 7.0 of the Modelithics CLR Library.

| 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 |
| Taiyo Yuden | HK1005 | IND-TAI-0402-101 | 0402 | 1.8-47 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 | 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 models listed below were added to Version 7.0 of the Modelithics NLD Library.

| 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 models listed below were added to Version 7.0 of the Modelithics NLT Library.

| 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 | LDMOSFET | SMD | NL |
| Infineon | PTA043002E | MOS-INF-PTA0043002E | LDMOSFET | Flange Mount | NL |

NL: Non-Linear

The models listed below were added to Version 7.0 of the Modelithics SLC Library.

| Vendor | Vendor Part Number | Modelithics Model Part Number | Device Type | Body Style | Features |
|----------|--------------------|-------------------------------|-------------|--------------------|----------|
| Skyworks | AS193-73 | SWT-SKY-AS193-001 | Switch | PHEMT GaAs IC SPDT | SS |
| Skyworks | AS204-80 | SWT-SKY-AS204-001 | Switch | GaAs MMIC | SS |
| NEC | UPC8179TK-E2-A | AMP-NEC-UPC8179TK-001 | Amplifier | MMIC | NL, SS |

SS: Substrate Scalable

Additional Notes:

- Additional licensing capability was added to version 7.0 to enable multi-simulator licensing for the Modelithics Complete Library.
- An installer fix was implemented to allow users to specify the installation folder.
- User selectable installer options for CLR sub-libraries: Micro, Small, Large and X-Large parts was added.

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