

## Modelithics EXEMPLAR Library for National Instruments/AWR Design Environment™

ex · em · plar (n.) Something that serves as a typical example or excellent model.

### Overview

The Modelithics EXEMPLAR Library is an expanded trial library containing more models than the free SELECT+ Library, which can be downloaded online at [www.Modelithics.com/Model/FreeModels](http://www.Modelithics.com/Model/FreeModels). The EXEMPLAR Library is a representative subset (*about 15%*) of all models available in the Modelithics COMPLETE Library, which contains passive CLR component and filter models, non-linear transistor and diode models, the Modelithics SUBSTRATE Library, and more. EXEMPLAR is designed to include all models needed to run the many example tutorial projects available on the Modelithics website.

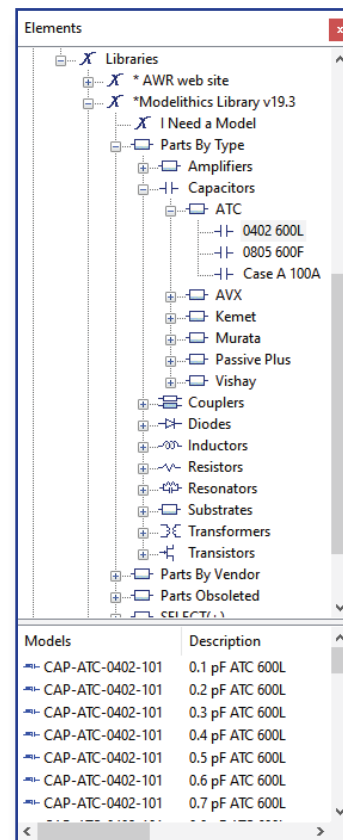
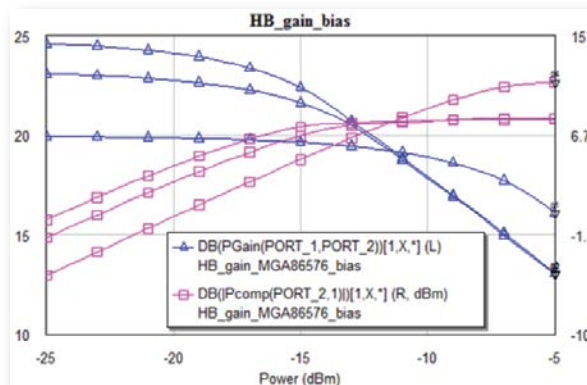
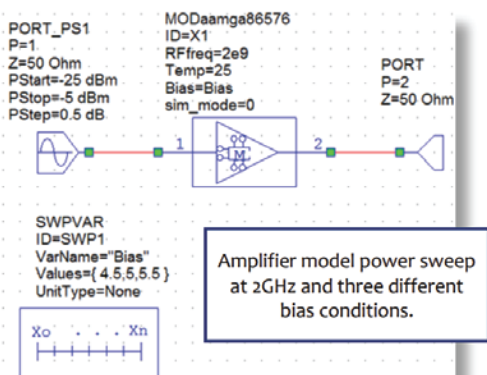
The EXEMPLAR Library is available to approved customers for a FREE trial and is also available to students and faculty members through the Modelithics University Program for educational wireless electronic design projects. See [www.Modelithics.com/Model/Exemplar](http://www.Modelithics.com/Model/Exemplar) for more details.

### Model and Library Features

- Modelithics models offer scalability by substrate, part value, pad size, temperature, and other characteristics.
- The models are engineered to simulate typical device response including related parasitics.
- The Modelithics EXEMPLAR Library includes many example design projects, and all of the Modelithics models needed to run those projects.
- Modelithics SELECT+ and SUBSTRATE libraries are included in Modelithics EXEMPLAR for convenient access.

### Example Projects in Modelithics EXEMPLAR

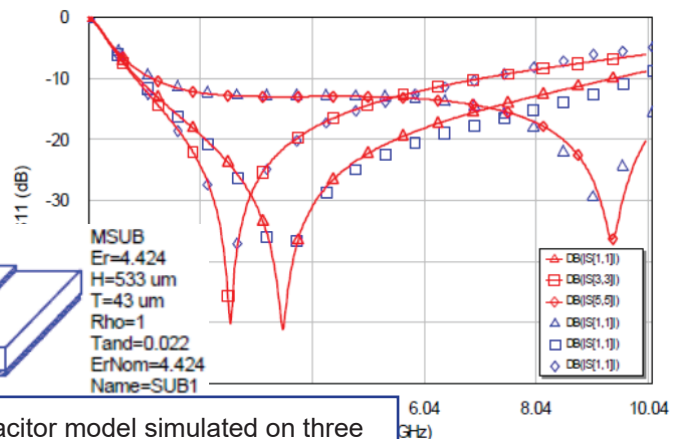
- Part Value Tuning
- Part Value Optimization
- Substrate Scaling
- Statistical Analysis
- Varying Bias Simulations
- Power Sweep
- Varying Temperature Simulations
- Harmonic Balance
- Noise Parameters
- 1/f Noise
- 2-Tone Intermodulation
- Load Pull Simulations
- Amplifier Model Simulations
- Filter Model Simulations
- Resonator Simulations
- Transformer Simulations



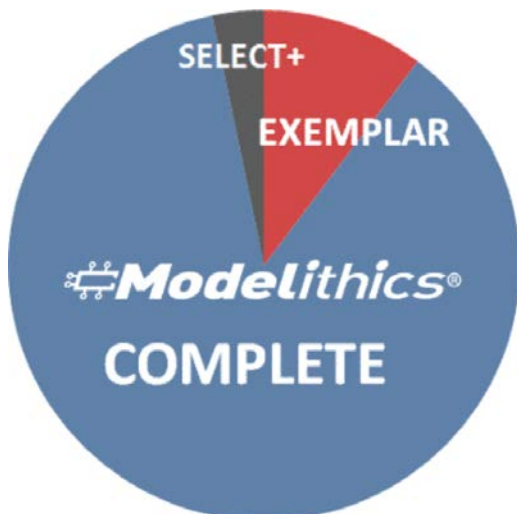
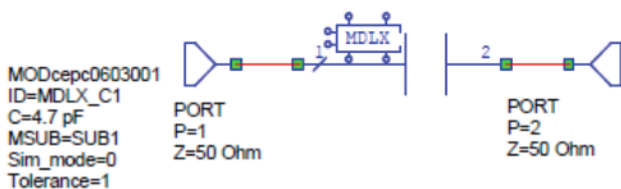
# Components in the Modelithics EXEMPLAR Library for NI/AWR Design Environment

NLT		CLR	
<b>Avago</b> AT-41533, AT-64023, ATF-511P8, ATF-54143	<b>Motorola</b> MRF1570T1	<b>ATC Capacitors</b> 100A, 600L, 600F	<b>Murata Capacitors</b> GRM022, GJM15, GRM1555C, GRM155R7, GRM188R71H, GQM188, GRM1885C
	<b>NXP</b> BFS540	<b>AVX</b> Accu-P (01005) capacitor	
<b>Excelics</b> EFA060BS5	<b>Qorvo</b> TGF2960-SD	<b>Barry</b> RK0603ZZ resistor	
<b>Infineon</b> BFP420, BFP949	<b>SEDI</b> FLL120MK	<b>Coilcraft Inductors</b> 0302CS, 0402CS, 0604HQ, 0805CS	<b>Passive Plus Capacitors</b> 0402N, 0603N
NLD		<b>Johanson</b> L-05Cxxx inductor	<b>TDK</b> MLG0402Q inductor
<b>MACOM</b> MLP 7110	SLC		<b>Toko</b> LL1608-FSL inductor
<b>Avago</b> HSMP-3823, HSMS-2829	<b>Murata Resonators</b> DRR030KE1R2, DRM020KER93	<b>KEMET</b> CBR04, C0805(X7R)	<b>Vishay Capacitors</b> HPC0402A, VJ0402D
<b>Microsemi</b> UPP9401	<b>AVX</b> CP0603 coupler	<b>KOA Resistors</b> RK73x1E, RK73x1J, RK73x2A	
<b>On Semiconductor</b> MMDB301LT1	<b>MACOM</b> 2690-1011		
<b>Rohm</b> RB715F	<b>Avago</b> MGA86576 amplifier		
<b>Skyworks</b> SMV1147-011LF	<b>Vanguard</b> 100205		
<b>Infineon</b> BAS70, BB535, BBY51-02W	<b>Mini-Circuits</b> GVA62+, GVA63+, GVA84+, PGA102+, PGA103+, PGA105+, PHA1+		

More to come! New models are added continually. Visit our website for an updated, complete list, and to see our available Pre-Release models ([www.Modelithics.com](http://www.Modelithics.com))



Capacitor model simulated on three different substrates.



**EXEMPLAR:** 55 Models representing 3241 parts

**COMPLETE:** >700 Models representing >17,000 parts

Contact Modelithics at [sales@modelithics.com](mailto:sales@modelithics.com) or visit [www.Modelithics.com](http://www.Modelithics.com) to request a free trial.