Modelithics®

World's Best RF & Microwave Simulation Models

Modelithics EXEMPLAR Library

for Cadence® AWR Design Environment® Platform

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

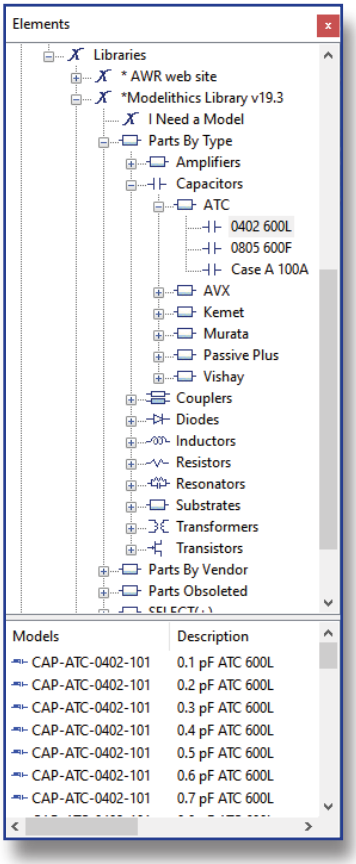
Overview

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**. The EXEMPLAR Library is a representative subset (*about 15%*) of all models available in the Modelithics COMPLETE Library, which contains passive CLR component models 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** for more details.

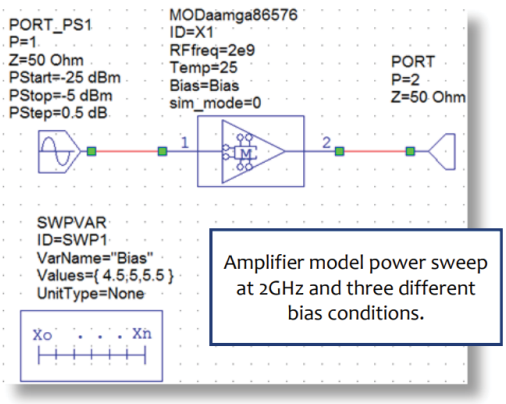
Model and Library Features

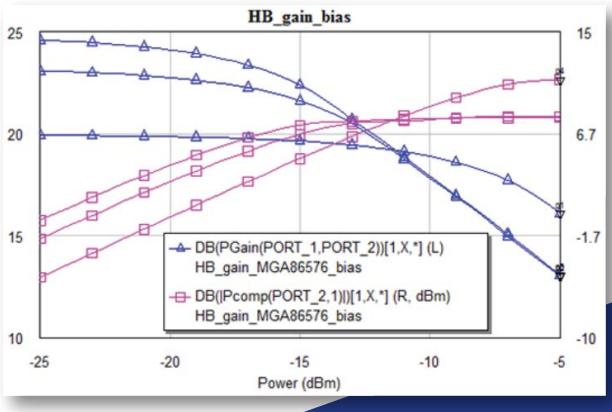
- Modelithics models offer scalability by substrate, part value, pad size, temperature, and other characteristics.
- The models are engineered to simulate typical device response including related parasitics.
- The Modelithics EXEMPLAR Library includes many example design projects, and all of the Modelithics 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





List of Components in the Modelithics EXEMPLAR Library for Cadence AWR Design Environment Platform

Amplifiers

Avago
MGA86576

CEL
uPC8179TK-E2-A

Freescale
MWE6IC9100NR1

Maxim
MAX2371, MAX2373

Mini-Circuits
GVA-62+, GVA-63+, GVA-84+, PGA-102+, PGA-103+, PGA-105+, PHA-1+, PHA-22+

Qorvo
RF2132, RF5110G, TGA8344-SCC, TGA8399B-SCC

Band Pass Filter

Toyocom
HFF-101B

Coupler

AVX
CP0603

Capacitors

AVX
Accu-P
(ATC)
100A, 600F, 600L

Capacitors (Cont'd)

Epcos
B37930K5

KEMET
C0805(X7R), CBR04

Murata
GJM15, GQM188, GRM022, GRM1555C1H, GRM155R71H, GRM1885C1H, GRM188R71H

Passive Plus
0402-ultra-low-ESR, 0603N-ultra-low-ESR

Vishay
HPC0402A, VJ0402D

Diodes

Avago
ATF-54143, HSMP-3823, HSMS-2829

Infineon
BAS70, BB535, BBY51-02W

MACOM
MLP7110, MSSP25250-70

Microsemi
UPP9401

On Semiconductor
MMBD301LT1

Rohm
RB715F

Skyworks
SMV1147

Duplexer

Sawtek
856331

Inductors

Coilcraft
0302CS, 0402CS, 0604HQ, 0805CS

Johanson
L-05Cxxx

TDK
MLG0402Q

Toko
LL1608-FSL

Mixer

Maxim
MAX2681

Resistors

Barry
RK0603ZZ

KOA
RK73B1J(RK73H), RK73B2A, RK73x1E(RK73H)

Resonators

Murata
DRM020KER93, DRM030KE1R2

Switch

MACOM
MASWSS0204

Transistors

Avago
AT-41533, AT-64023, ATF-511P8, ATF-54143

CEL
NE552R679A, NE350184C, NE85633

Excelics
EFA060BS5

Infineon
BFP420, BFR949F

Motorola
MRF1570

Nitronex
NPT1012, NPTB00004

NXP
BFS540

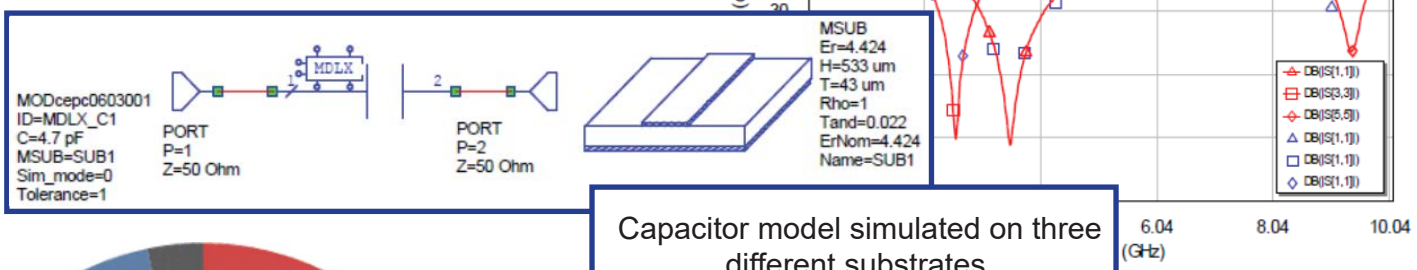
Qorvo
TGF2960-SD

SEDI
FLL120MK

Transformer

Vanguard
100205

See the full list of models available within the Modelithics COMPLETE Library:
www.modelithics.com/model



Capacitor model simulated on three different substrates.

SELECT+ EXEMPLAR

Modelithics®

COMPLETE

EXEMPLAR Library: 75 Models representing 3,582 parts

COMPLETE Library: **>775 Models** representing **>22,000 parts**

Contact Modelithics at ***sales@modelithics.com*** or visit ***www.Modelithics.com*** to request a free trial.

Excellence in Modeling Since 2001