



**Modelithics NLT Library**  
Version 4.0 Release Notes  
July 2009

The following models have been added in version 4.0:

Vendor	Vendor Part Number	Modelithics Model Part Number	Type	Package
Excelics	EPA240BV	HMT-EXC-EPA240BV	HMT	Chip
MwT	MwT-7	MES-MWT-MWT7	MESFET	Chip
Motorola	MRF1513	MOS-MOT-MRF1513	LDMOSFET	CS-466
Motorola	MRF1570	MOS-MOT-MRF1570T1	LDMOSFET	CS-1366
NEC	NE85633	BJT-NEC-NE85633	BJT	SOT23
NEC	NESG303100G	HBT-NEC-NESG303100	HBT	Chip
NEC	NE5520379A	MOS-NEC-NE5520379A	LDMOSFET	Surface mount
NEC	NE5511279A	MOS-NEC-NE5511279A	LDMOSFET	Surface mount
NEC	NE552R679A	MOS-NEC-NE552R679A	LDMOSFET	Surface mount
ON Semiconductor	MMBFU310LT1	JFT-ONS-MMBFU310LT1	JFET	SOT23
TriQuint	TGF2961-SD	HMT-TQT-TGF2961-SD	GaAs HFET	Surface mount
TriQuint	TGF2960-SD	HMT-TQT-TGF2960-SD	GaAs HFET	Surface mount
TriQuint	TGA2602-SM	HMT-TQT-TGA2602-SM	pHEMT	Surface mount

Special Release Notes:

1. The NEC NE552R679A, NE5511279A, NE5520379A models represent LDMOS power transistors that are intended for power amplifier applications. The new non-linear models have been load-pull validated at 300MHz and 900MHz and the
2. The NESG303100G model represents a chip-level NPN SiGe transistor and includes 1/f noise and noise parameter modeling to 24 GHz. This model is available for free as part of Modelithics Select 6.0 and is included for convenience in NLT 4.0. This release of the model includes a bondwire inclusion or removal feature.
3. The Triquint TGA2602-SM model represents a packaged dual pHEMT LNA device and includes noise parameter modeling through 6 GHz along with single and two-tone load-pull validations at 0.9 and 1.9 GHz.
4. The Triquint TGF2961-SD and TGF2960-SD models are for packaged pHEMT power devices with measurement validations through 6 GHz, including single and two-tone load-pull validations at 0.8 1.2 and 2.5 GHz.
5. The EPA240BV model is for an Excelics high efficiency power FET chip measurement validated to 26 GHz, including single tone load-pull.
6. The NEC 85633 model represents a packaged NEC NPN BJT device with measurement validations through 6 GHz, including noise parameter and 1/f noise modeling.

For information on obtaining Version 4.0, please contact [sales@Modelithics.com](mailto:sales@Modelithics.com).  
For help in upgrading to Version 4.0, please contact [support@Modelithics.com](mailto:support@Modelithics.com).