AMCAD Engineering
Advanced Modeling for Computer-Aided Design

Quotation Request Form

Behavioral Modeling Service – Active Device

Submitted by :

Company Name :	**Phone :** +	**Web :**	**Email :**
Contact :	**Phone :** +	**mobile :** +	**Email :**
Adress :			
Other Information :	**Quotation Date :**	**Request Date :**	**Date model Needed :**

Submitted to :

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Contact
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Email : info@amcad-engineering.com

Date :	
Reference :	

Type of Device to be Modeled or Characterized

Type of device	☐HPA	☐LNA	☐Limiter
Provide a short device description			
DC consumption behavior to be modeled	☐ Yes	☐ No	
Device format	☐ Wafer	☐ Packaged *	
Data Sheet Available?	☐ No	☐ Yes, will provide	☐ Yes, specify Web site
RF Wafer Probe Compatibility?	☐ No	☐ Yes	Probe Pitch ( )
Are on-wafer calibration standards available?	☐ No		☐ Yes
Is test fixture calibration kit available?	☐ No		☐ Yes
Type and Size	Wafer, Reticule or Chip Size →		Package type & dimensions →
Digital control?	☐ No		☐ Yes, will provide

***** Additional Information about the Device format:

Data & Test condition Requirement

For active devices, we need information about maximum current/voltage/Pdc ratings, general electrical characteristics and layout drawing of the device and/or its package board geometry (if applicable).

Absolute Max rating	
Gain compression (dB)	
MAX Output peak DC current (A)	
MAX Input peak DC current (A)	
MAX dissipated Power (W)	
Saturation Power (W)	
Max Input Power	

Measurement configuration

- **Device biasing**

Biasing modes	Bias Conditions:	DC mode ☐	Pulsed mode ☐
	List of bias conditions to be characterized:		
	Vin (V) (if applicable)		
	Vout (V) or Vdd (V)		
	Vin pulse width (µs)		
	Vout pulse width (µs)		
	Duty Cycle (%)		
Stop Conditions	Max Mean power consumption (W):		
	Max Peak power consumption (W):		
Temperature (°C)			

- **Power and frequency sweep**

Fundamental Frequency (GHz)	Start (GHz)	Stop (GHz)	Step (GHz)
RF mode	CW mode / Pulsed mode		
	Pulse width (µs)		
	Duty cycle (%)		
Gain compression (dB)			
Noise Figure measurement?	☐ NO	☐YES	

- **Load pull**

Number of impedance loads	☐ 3	☐ 6	☐ 15	☐ 21	☐ Custom pattern
Max TOS					

Model Capabilities

- **Definition of the RF Circuit/System Simulator that will be used to simulate the model**

ADS (Keysight): ☐
SystemVue (Keysight): ☐
VSS (NI): ☐
Simulink (Matworks): ☐
Custom system simulator: ☐

Additional information about software version:

- **Type of Simulation**

CW simulation: ☐
Envelop transient: ☐
Data Flow: ☐

- **Type of Analysis**

Sweep: ☐
Noise: ☐
Statistical: ☐

- **Type of model needed**

Static model (no memory effects): ☐
Dynamic model: ☐
RF Frequency dispersion behavior (UHF): Yes/No
Low Frequency effect behavior (UHFLF): Yes/No
Mismatch Influence (BHF): ☐
Max VSWR:

Additional Information Comments/Requirements:

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PLEASE E-MAIL TO: info@amcad-engineering.com