

Proposal of Standardization of passive components model

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Activities of JEITA EDA standards W.G.

- JEITA will standardize passive component models in ECALS dictionary.
- There are two types of models

1.Equivalent circuit = SPICE netlist

— Circuit diagram

— Comparison data between measured and modeled

— simulator where the netlist can work

2.S-parameter = Touchstone format (Text file)

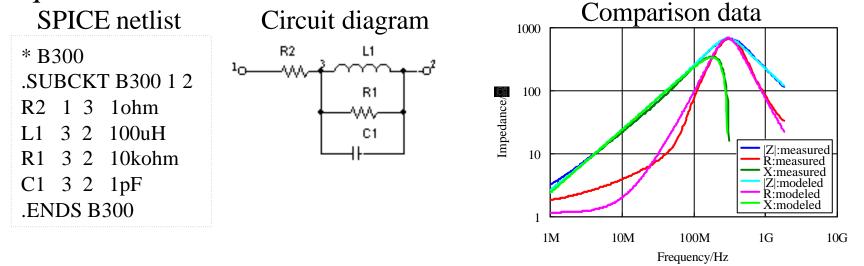
- Graph (frequency characteristics)
- measurement condition
- 3.IBIS ? I think IBIS has a great possibility to describe passive component models.

IBIS.ppt



Example of Passive Component Models

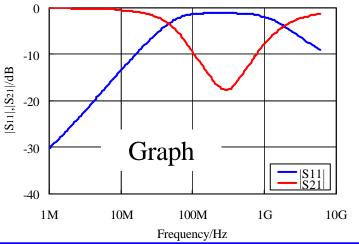
1.Equivalent circuit



2. S-parameter Text file

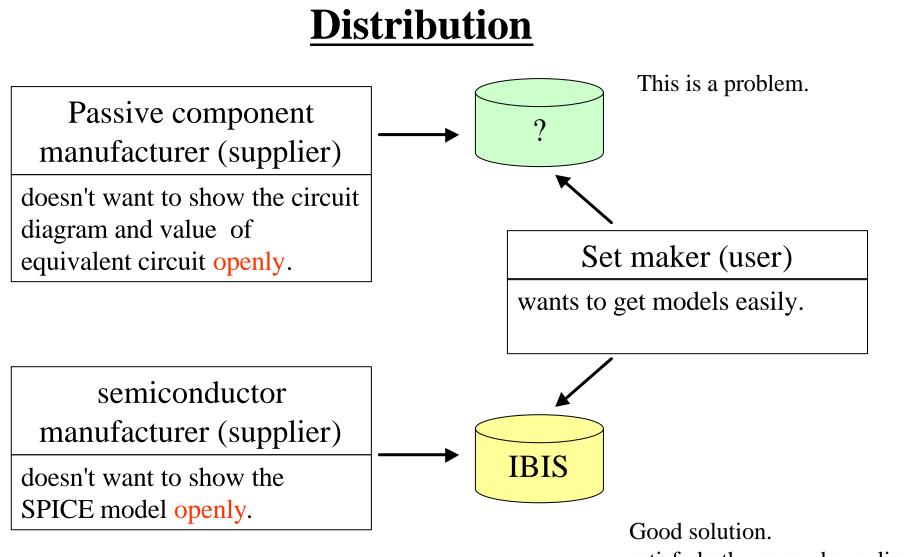
MHz S MA R 50 0.30000 0.01594 34.1538 0.98689 -0.52142 0.98753 -0.51077 0.01597 0.31523 0.01625 35.6382 0.98683 -0.53988 0.98684 -0.51983 0.01629 0.33123 0.01658 36.5980 0.98664 -0.55659 0.98694 -0.59540 0.01660

6000.00 0.35434 -82.8386 0.85336 -8.40015 0.85235 -8.58238 0.33692



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satisfy both user and supplier



We would like to investigate what is the best solution for a passive component model.



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