

# TP0v Reference Channel

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**Jan 6, 2021**

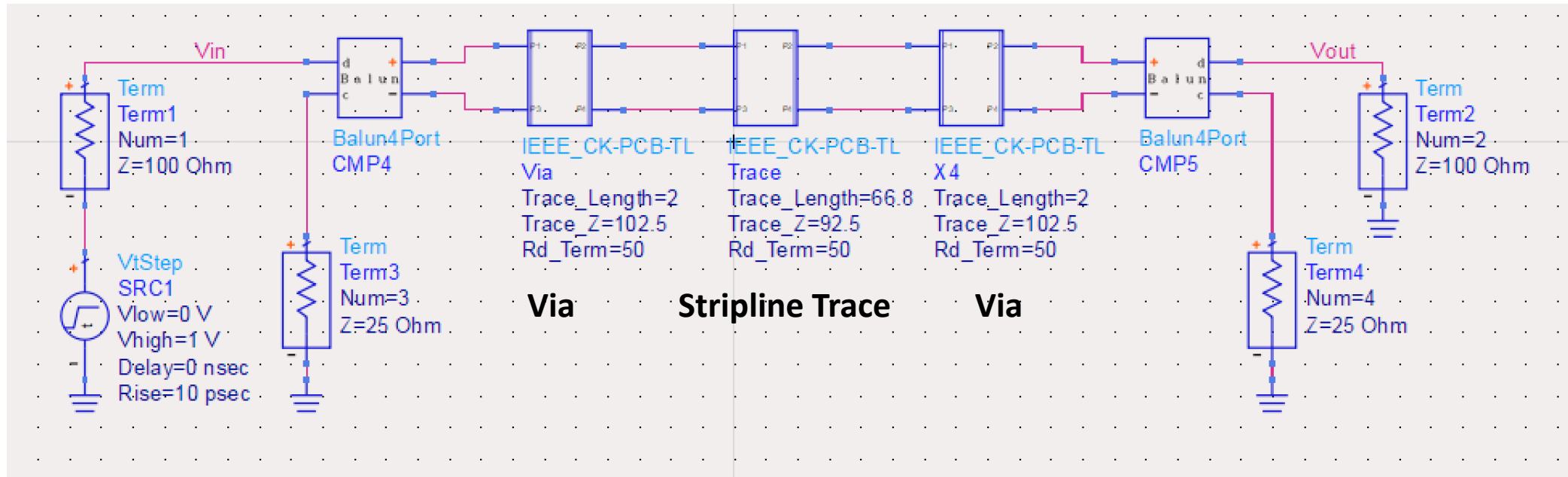
# Overview

- ❑ **TP0v reference channel is constructed from table 92-12 parameters**
- ❑ **TP0v reference channel constructed assuming 2 vias and one stripline**
- ❑ **TP0v reference channel has a loss of 2.8 dB@26.55 GHz**
- ❑ **TP0v reference channel is a synthetic and be reproduced by everyone's**
  - TP0v reference channel can facilitate and verify the measurement procedure
  - If the DUT board is similar TP0v reference channel, then one may be able to use direct measurement.

# Defining TP0v Reference Channel

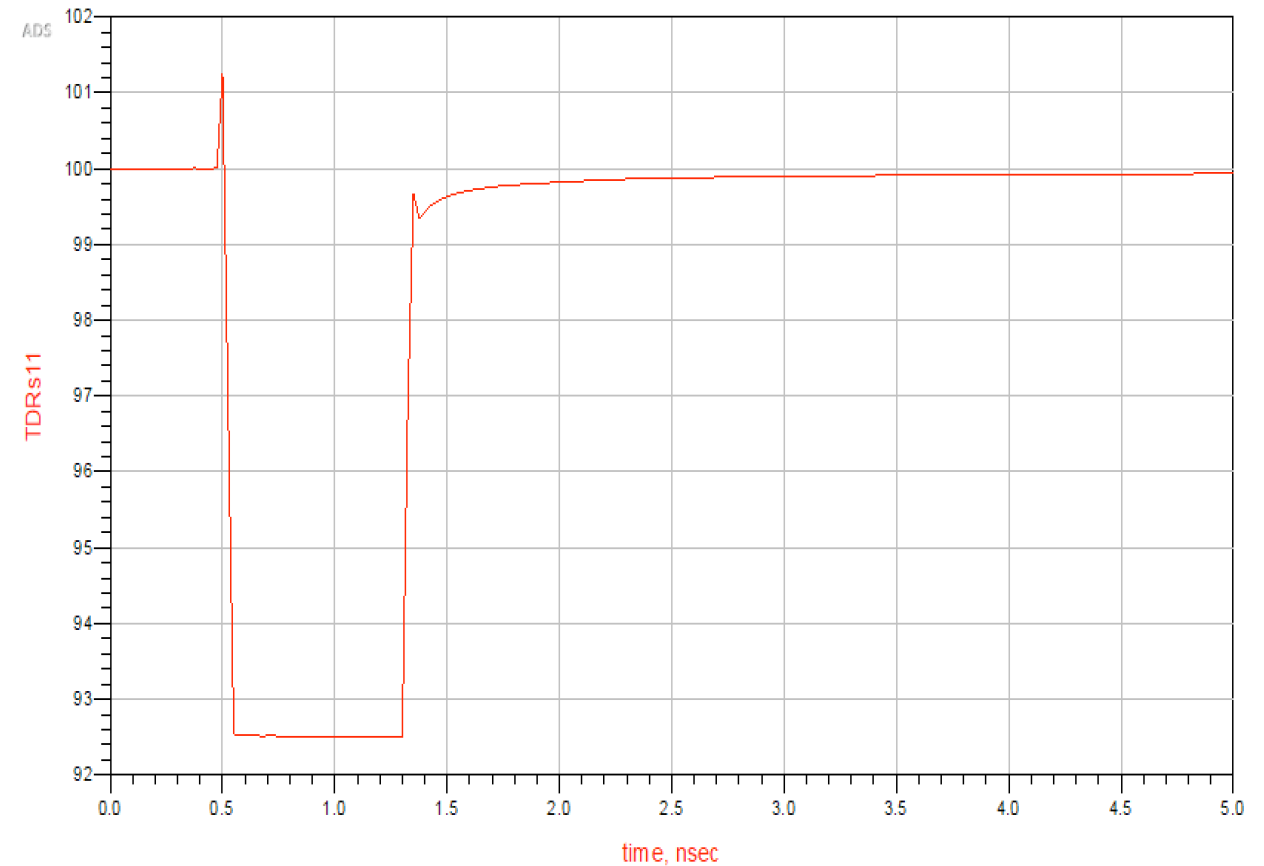
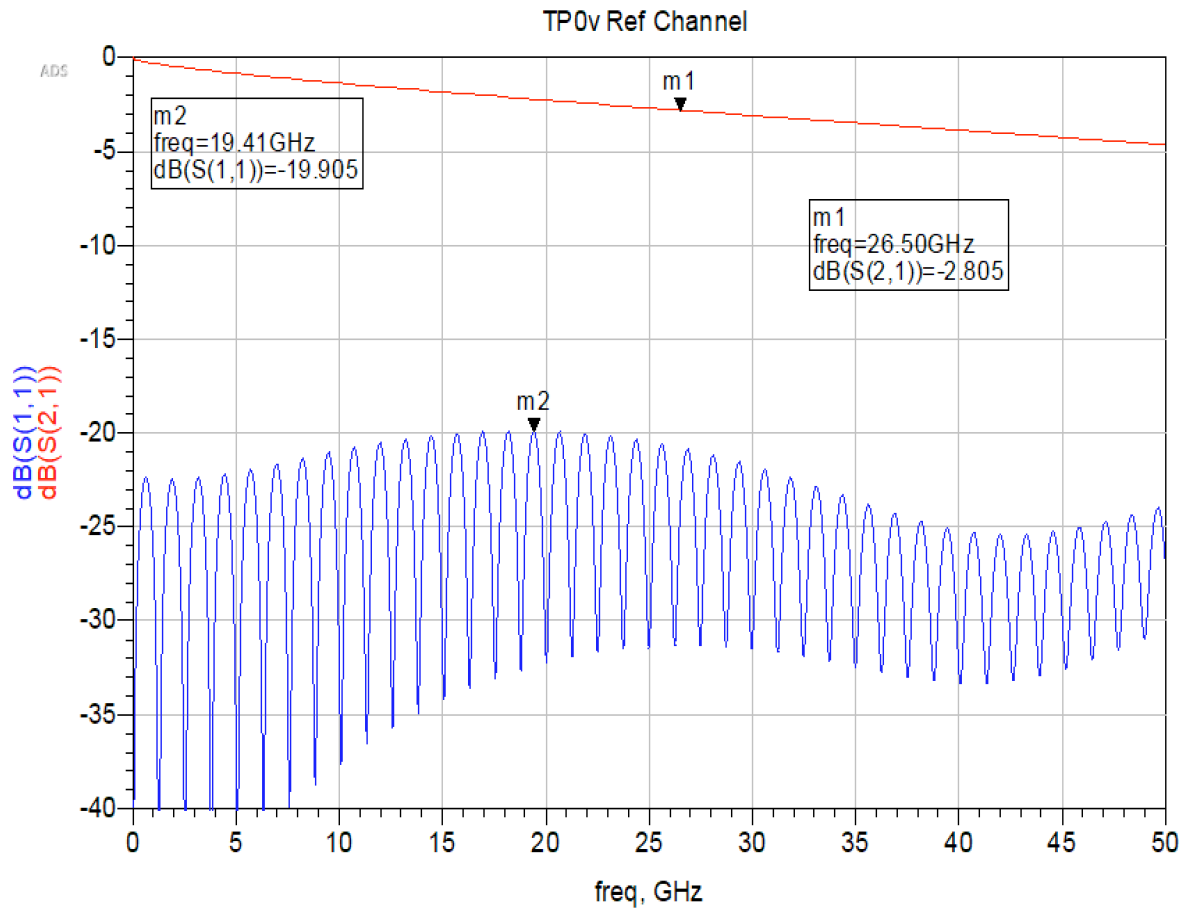
## □ TP0v reference channel is constructed to have 2.8 dB loss at 26.55 GHz

- Board trace parameters per table 92-12
- Via length 2 mm 102  $\Omega$
- Stripline length 66.8 mm 92.5  $\Omega$ .



# TP0v Reference Channel

## □ S-parameters and TDR response



# TP0v Fitted Response

□ TP0v reference channel has a loss of 2.8 dB at 26.55 GHz as defined

- Fitted channel transfer loss given by  $0.006 + 0.25 \cdot \sqrt{f} + 0.057 \cdot f$ , where  $f$  is in GHz.

