

# FRFS-0352 TRL LINE PROPERTIES

APP NOTE: 39-004

Dielectric Constant Effective	Reference Length in (mm)	Frequency Ratio	Phase Low End	Phase High End
2.9	1.250 (31.75)	9	18°	162°

	Frequency Start, MHz	Frequency Stop, MHz	Delay, ps	Line Length, in (mm)
Short / Open			0	1.250 (31.75)
Line 1	2000	18000	25	2.673 (67.90)

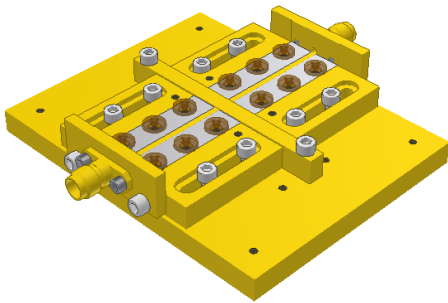


Fig 1: Reference Lines

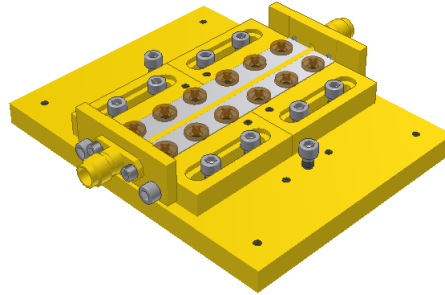


Fig 2: Thru Reference

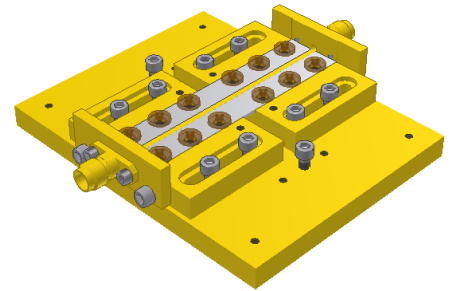


Fig 3: Line 1

The reference length is the length up to DUT.

The thru reference is double the reference length.

Line 1 provides 25ps of delay.