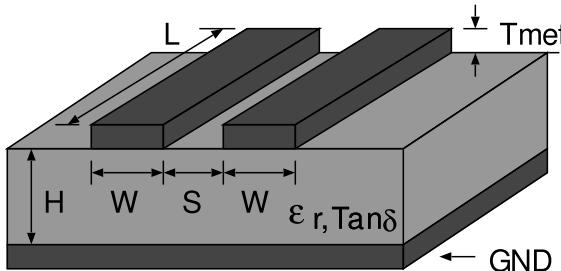# **Wcalc** Transmission Line Analysis/Synthesis
Version 1.1
Coupled Microstrip Analysis/Synthesis
Model Version v0.1

1/1

Width of lines (W)	= 646.808 um
Length of lines (L)	= 20000.5 um
Gap between lines (S)	= 897.623 um
Dielectric thickness (H)	= 380 um
Relative dielectric contant (ε_r)	= 4.6
Dielectric loss tangent (tanδ)	= 0.015
Metal thickness (t_{met})	= 35 um
Metal resistivity (ρ)	= 1.72e-08 Ohm-mm
Metal surface roughness (rough)	= 0.001 mil
Analysis Frequency	= 100 MHz
Characteristic Impedance	= 52.4404
Coupling coefficient	= 0.0476191
Even mode impedance	= 55
Odd mode impedance	= 50
Electrical length	= 4.443
Even mode loss	= 0.00497285 dB
Odd mode loss	= 0.00448664 dB
Even mode loss per length	= 0.000248637 dB/mm
Odd mode loss per length	= 0.000224327 dB/mm
Even mode open end length correction	= 5.97121 mil
Odd mode open end length correction	= 5.67511 mil
Even mode incremental Inductance	= 0.348762 nH/mm
Even mode incremental Capacitance	= 0.115293 pF/mm
Even mode incremental Resistance	= 0.110967 mOhm/mm
Even mode incremental Conductance	= 1.00424 uMho/mm
Odd mode incremental Inductance	= 0.300242 nH/mm
Odd mode incremental Capacitance	= 0.120097 pF/mm
Odd mode incremental Resistance	= 0.0826631 mOhm/mm
Odd mode incremental Conductance	= 0.999999 uMho/mm