



Electrical:

|                                 |                                                     |
|---------------------------------|-----------------------------------------------------|
| Impedance                       | 75 Ohms                                             |
| Freq Range                      | 0-12.0 GHz                                          |
| Working Voltage                 | 170 Vrms                                            |
| Dielectric withstanding voltage | >500 Vrms                                           |
| Reflection Factor (VSWR)        | 1.10 Max 0.0-6.0 GHz<br>1.10 Max 6.0-12.0 GHz       |
| Contact Resistance              | Center Contact 5.0 m Ohm<br>Outer Contact 2.5 m Ohm |
| Insulation Resistance           | > 1000 Meg Ohm                                      |

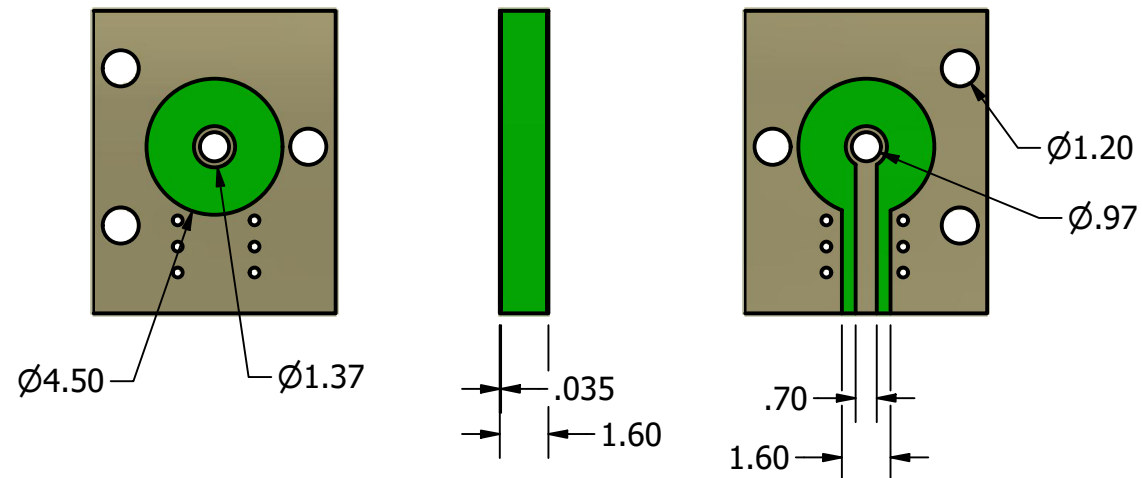
Materials:

|             |                   |
|-------------|-------------------|
| Center Pin  | BeCu/10μ Au       |
| Metal Parts | Brass / Ni and Au |
| Insulators  | PTFE              |

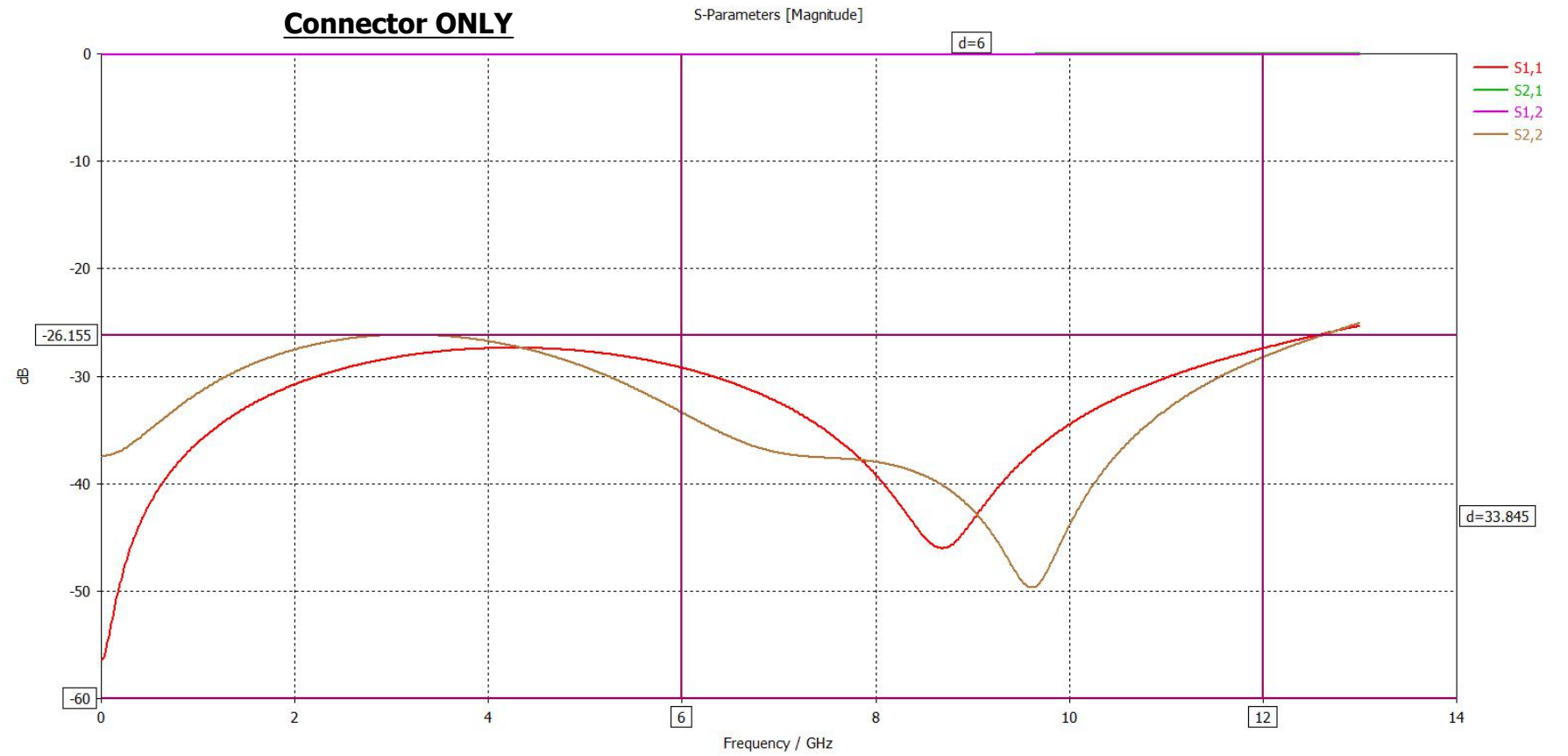
Enviromental:

|                |              |
|----------------|--------------|
| Temp Ranges:   | -65 to +85°C |
| Mating Cycles: | 500          |

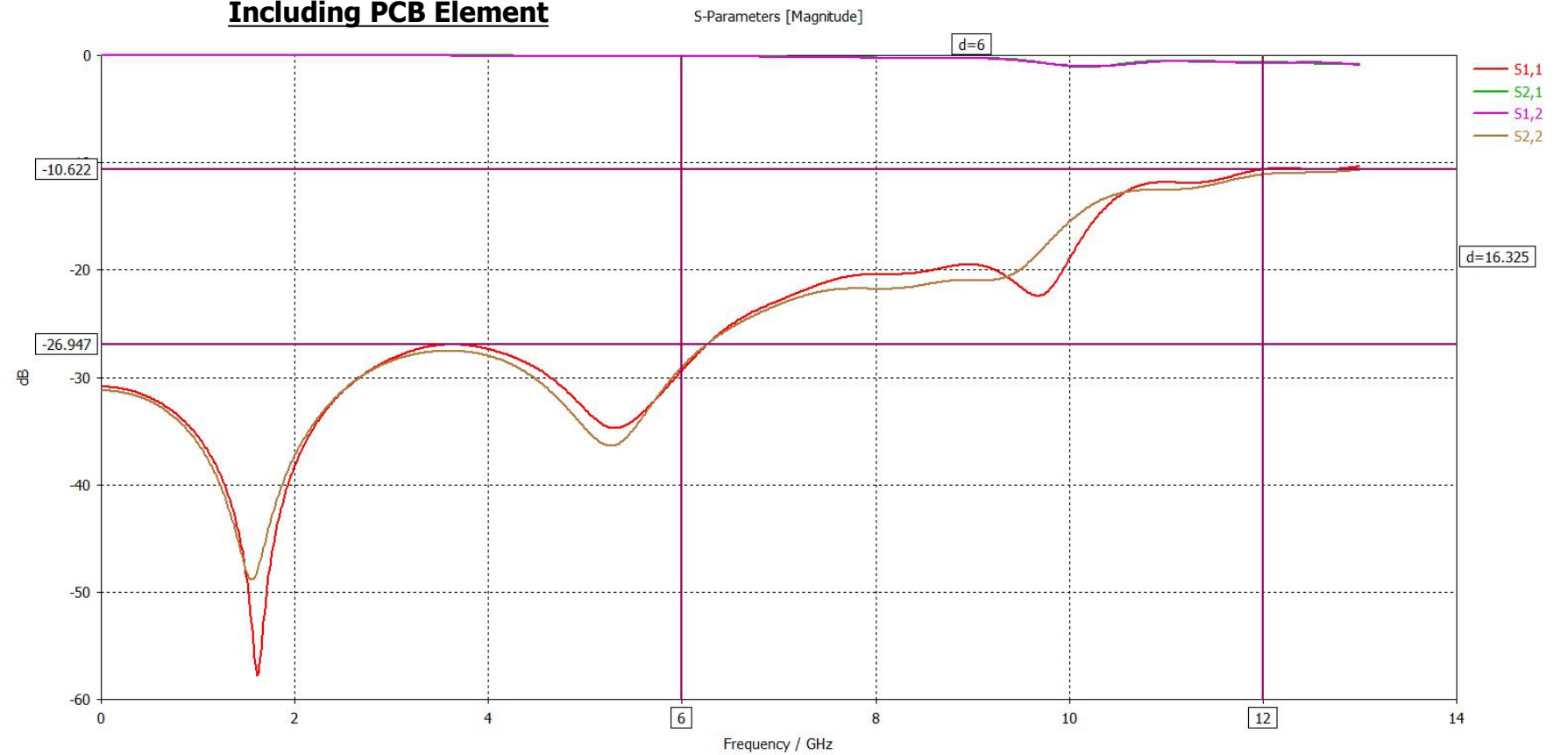
Suggested PCB layout intended as starting point for design iteration



Connector ONLY



Including PCB Element



Design Right  
Protected



RoHS  
Compliant

Material:

Designed by  
Peter Millard



Finish:

Checked by

Approved by

Gen Tol  
 $\pm 0.10$   
Angular  $\pm 2^\circ$

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DO NOT SCALE

Unit of Measure: millimeters (mm)

Date  
20 May 2025

A3

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Description:  
12GHz Tall Stacking female Micro BNC for 1.6mm PCBs

Part No:  
XPS-12-RB18-NNIJX Cust

Issue  
1.5

Sheet  
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