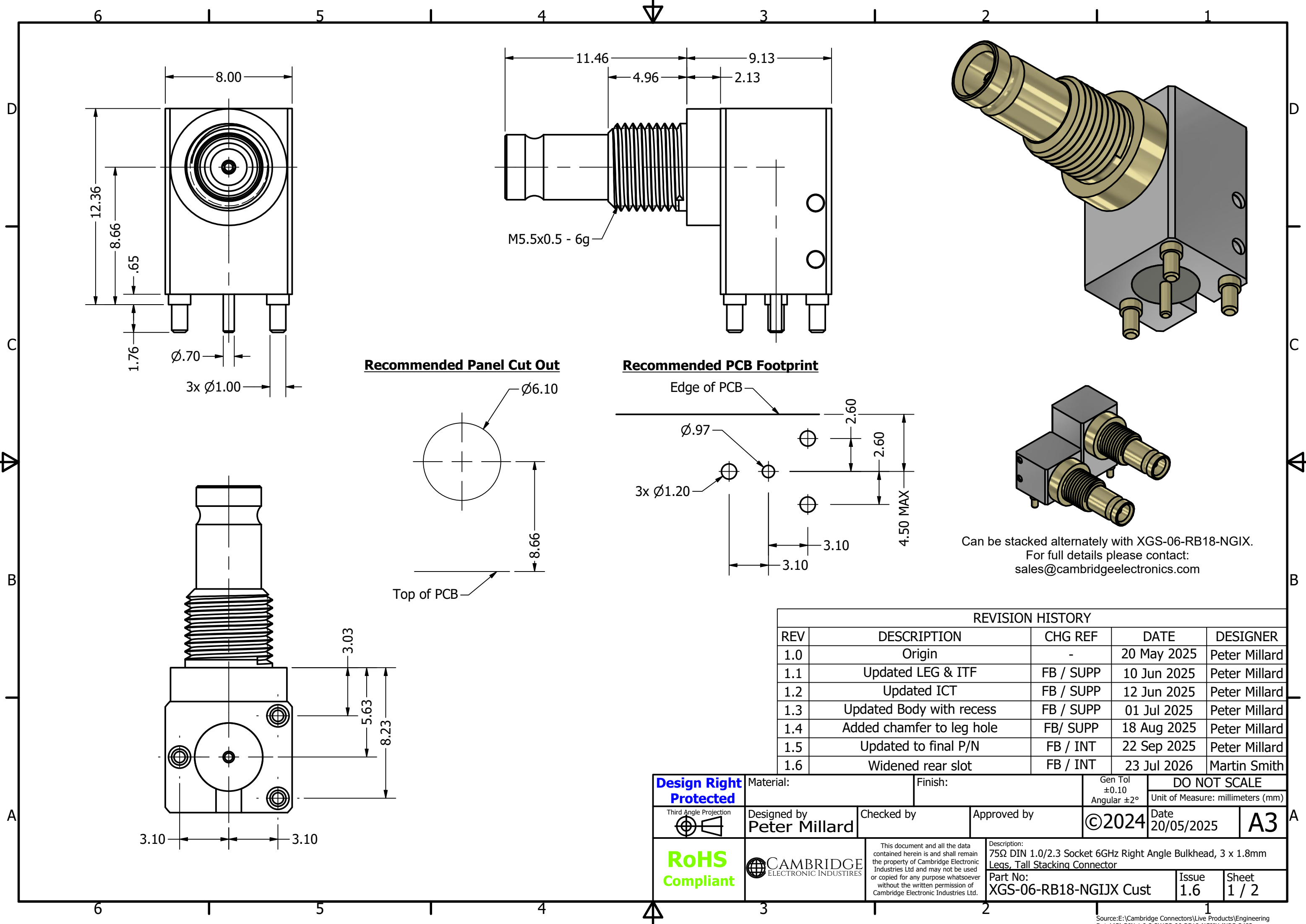




| REVISION HISTORY |                           |           |             |               |
|------------------|---------------------------|-----------|-------------|---------------|
| REV              | DESCRIPTION               | CHG REF   | DATE        | DESIGNER      |
| 1.0              | Origin                    | -         | 20 May 2025 | Peter Millard |
| 1.1              | Updated LEG & ITF         | FB / SUPP | 10 Jun 2025 | Peter Millard |
| 1.2              | Updated ICT               | FB / SUPP | 12 Jun 2025 | Peter Millard |
| 1.3              | Updated Body with recess  | FB / SUPP | 01 Jul 2025 | Peter Millard |
| 1.4              | Added chamfer to leg hole | FB/ SUPP  | 18 Aug 2025 | Peter Millard |
| 1.5              | Updated to final P/N      | FB / INT  | 22 Sep 2025 | Peter Millard |
| 1.6              | Widened rear slot         | FB / INT  | 23 Jul 2026 | Martin Smith  |

|                                                                                                                 |                                                                                       |                                                                                                                                                                                                                                                         |         |                                                                                                              |                                 |                                   |                       |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------------------------|-----------------------|
| <b>Design Right<br/>Protected</b>                                                                               | Material:                                                                             |                                                                                                                                                                                                                                                         | Finish: |                                                                                                              | Gen Tol<br>±0.10<br>Angular ±2° | <b>DO NOT SCALE</b>               |                       |
|                                                                                                                 |                                                                                       |                                                                                                                                                                                                                                                         |         |                                                                                                              |                                 | Unit of Measure: millimeters (mm) |                       |
| Third Angle Projection<br> | Designed by<br><b>Peter Millard</b>                                                   | Checked by                                                                                                                                                                                                                                              |         | Approved by                                                                                                  | ©2024                           | Date<br>20/05/2025                | <b>A3</b>             |
| <b>RoHS<br/>Compliant</b>                                                                                       |  | This document and all the data contained herein is and shall remain the property of Cambridge Electronic Industries Ltd and may not be used or copied for any purpose whatsoever without the written permission of Cambridge Electronic Industries Ltd. |         | Description:<br>75Ω DIN 1.0/2.3 Socket 6GHz Right Angle Bulkhead, 3 x 1.8mm<br>Legs, Tall Stacking Connector |                                 |                                   |                       |
|                                                                                                                 |                                                                                       |                                                                                                                                                                                                                                                         |         | Part No:<br><b>XGS-06-RB18-NGIJX Cust</b>                                                                    |                                 | Issue<br><b>1.6</b>               | Sheet<br><b>1 / 2</b> |

Electrical:

|                                 |                      |
|---------------------------------|----------------------|
| Impedance                       | 75 Ohms              |
| Freq Range                      | 0-6.0 GHz            |
| Working Voltage                 | 250 Vrms             |
| Dielectric withstanding voltage | >750 Vrms            |
| Reflection Factor (VSWR)        | 1.04 Max 0.0-3.0 GHz |
|                                 | 1.13 Max 3.1-6.0 GHz |

|                       |                          |
|-----------------------|--------------------------|
| Contact Resistance    | Center Contact 4.0 m Ohm |
|                       | Outer Contact 2.5 m Ohm  |
| Insulation Resistance | > 1000 Meg Ohm           |

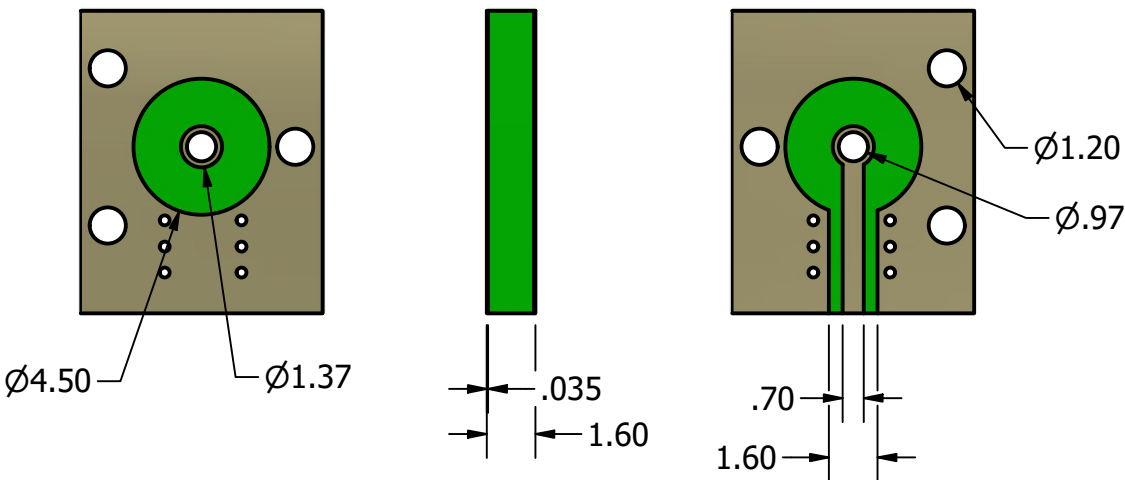
Materials:

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

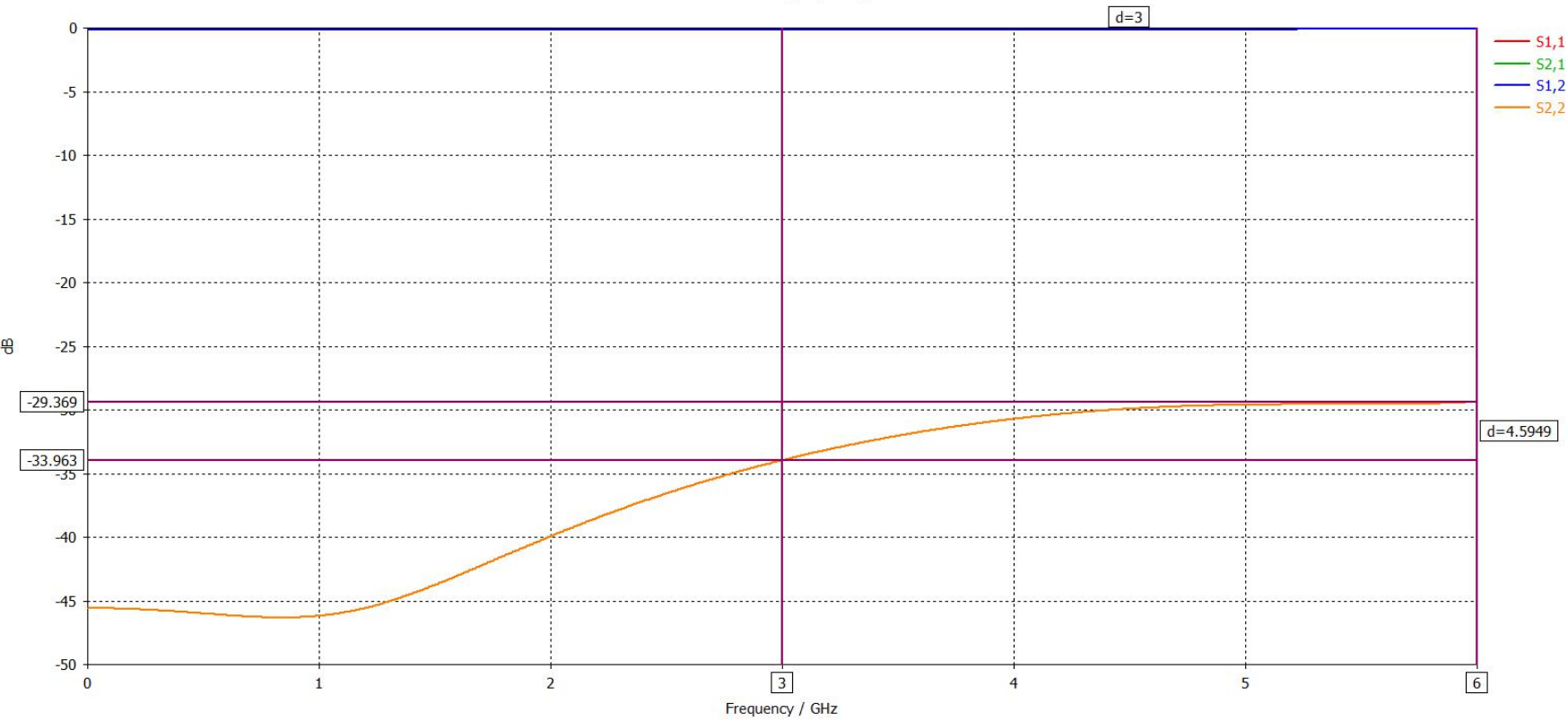
Enviromental:

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

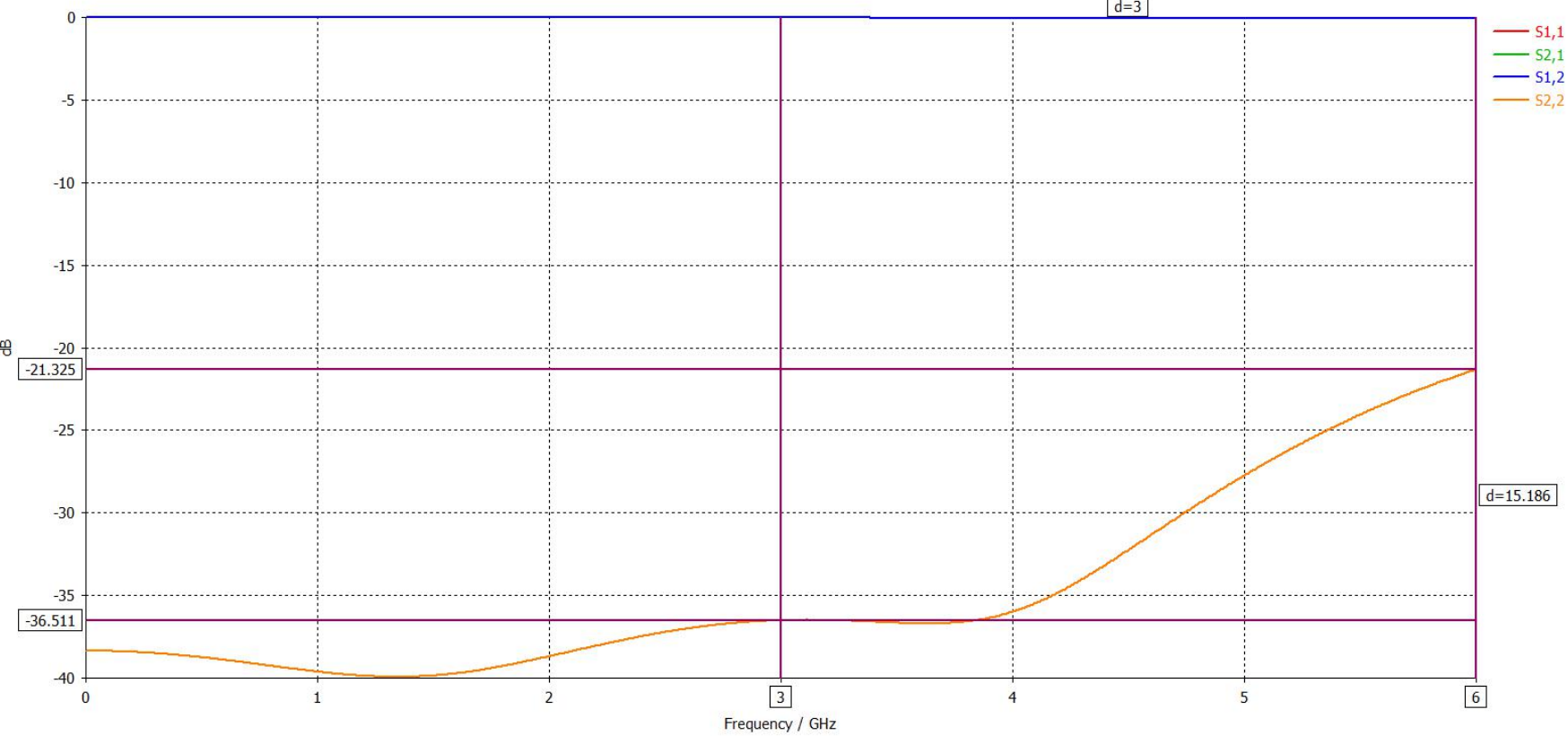
Suggested PCB layout intended as starting point for design iteration



Connector ONLY



Including PCB Element



|                           |                                    |  |                                                                                                                                                                                                                                                                           |  |                                                                                                              |  |                             |  |
|---------------------------|------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------|--|-----------------------------|--|
| Design Right<br>Protected | Material:                          |  | Finish:                                                                                                                                                                                                                                                                   |  | Gen Tol<br>±0.10<br>Angular ±2°                                                                              |  | DO NOT SCALE                |  |
|                           | Third Angle Projection             |  | Designed by<br>Peter Millard                                                                                                                                                                                                                                              |  | Checked by                                                                                                   |  | Approved by                 |  |
| RoHS<br>Compliant         | CAMBRIDGE<br>ELECTRONIC INDUSTRIES |  | This document and all the data<br>contained herein is and shall remain<br>the property of Cambridge Electronic<br>Industries Ltd and may not be used<br>or copied for any purpose whatsoever<br>without the written permission of<br>Cambridge Electronic Industries Ltd. |  | Description:<br>75Ω DIN 1.0/2.3 Socket 6GHz Right Angle Bulkhead, 3 x 1.8mm<br>Legs, Tall Stacking Connector |  | ©2024<br>Date<br>20/05/2025 |  |
|                           |                                    |  | Part No:<br>XGS-06-RB18-NGIJX Cust                                                                                                                                                                                                                                        |  | Issue<br>1.6                                                                                                 |  | Sheet<br>2 / 2              |  |