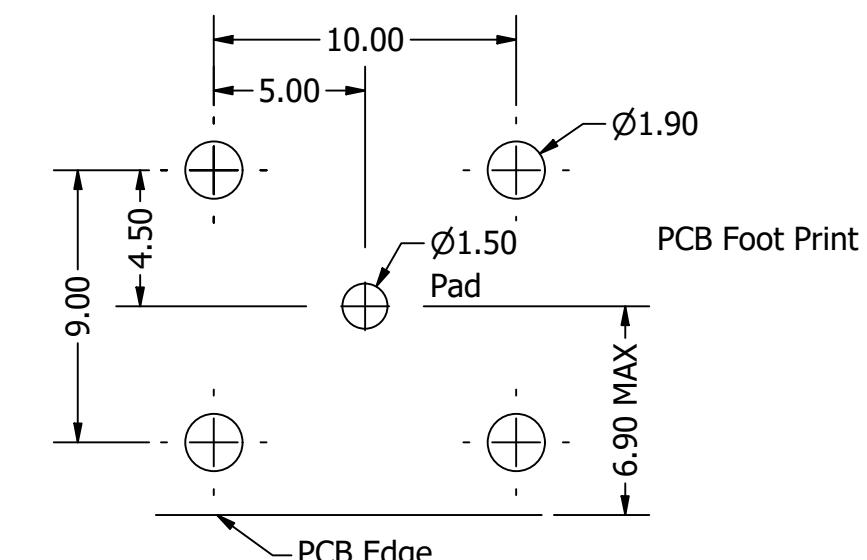


Recommended Panel Cut Out



Recommended PCB Footprint

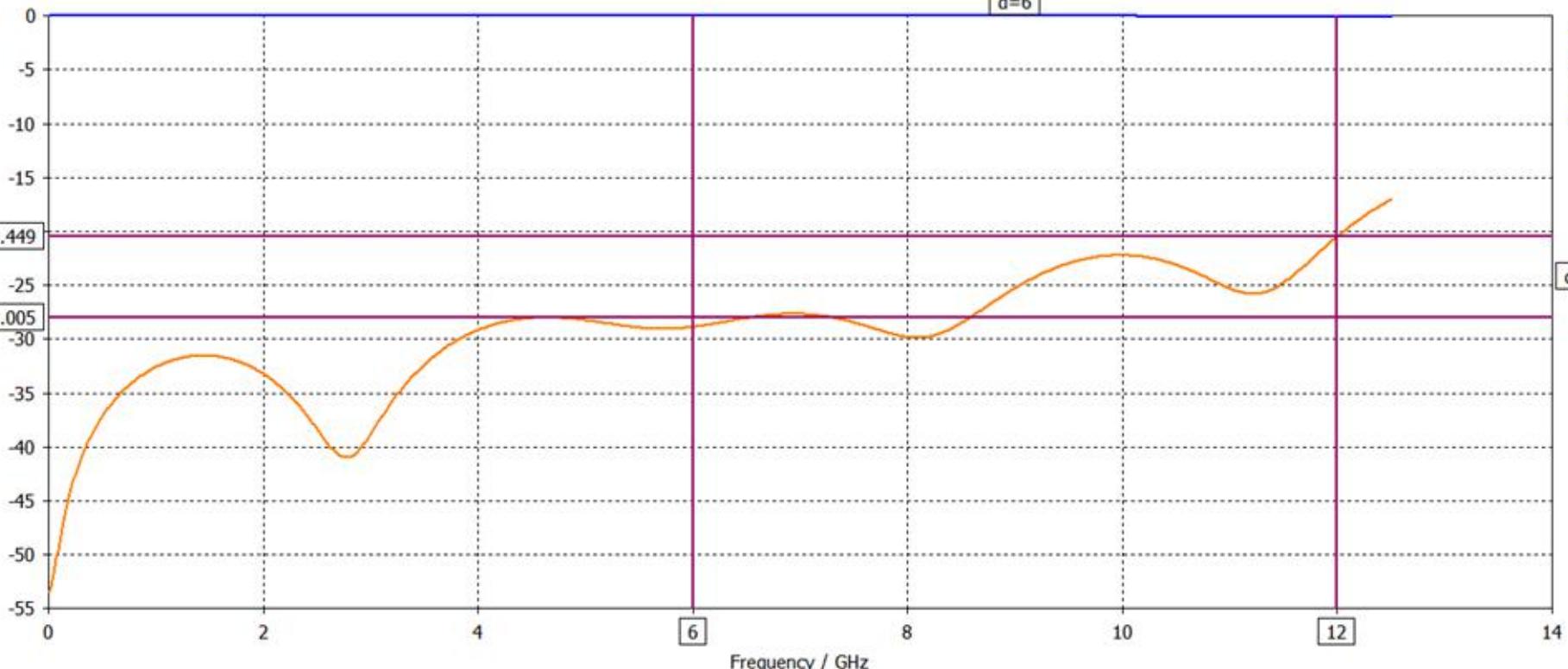
| REVISION HISTORY | | | |
|---|---|---|---|
| REV | DESCRIPTION | DATE | DESIGNER |
| 3.0 | Updated P/N | 25 Jun 2024 | Peter Millard |
| | | | |
| Design Right Protected | Material:  Finish:  | Gen Tol  ±0.10 | DO NOT SCALE |
| | | | Unit of Measure: millimeters (mm) |
|  | Designed by Peter Fayers | Checked by  | Approved by  |
| RoHS Compliant |  CAMBRIDGE ELECTRONIC INDUSTRIES | ©2024 Date 15 May 2015 A3 | |
| | | Description: 12GHz 75 ohm BNC Female Bulkhead R/A PCIe Surface Mount PCB Connector | |
| | | Part No: XBS-12-RB35-NNN Cust | Issue 3.0 Sheet 1 / 3 |

6 5 4 3 2 1

Connector ONLY

S-Parameters [Magnitude in dB]

d=6

S1,1
S2,1
S1,2
S2,2

d=6

d=7.5563

Electrical:

| | |
|---------------------------------|--------------------------|
| Impedance | 75 Ohms |
| Freq Range | 0-12.0 GHz |
| Working Voltage | 500 Vrms |
| Dielectric withstanding voltage | 1500 Vrms |
| Reflection Factor (VSWR) | 1.11 MAX 0.0-6.0 GHz |
| | 1.21 MAX 6.1-12.0 GHz |
| Contact Resistance | Center Contact 1.5 m Ohm |
| | Outer Contact 1.0 m Ohm |
| Insulation Resistance | >5000 Meg Ohm |

Materials:

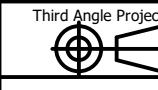
| | |
|-------------|----------------------------------|
| Center Pin | PhosBonze / 10 μ " Au |
| Metal Parts | Zinc Alloy / 70 μ " Ni Plate |
| Insulators | PTFE |

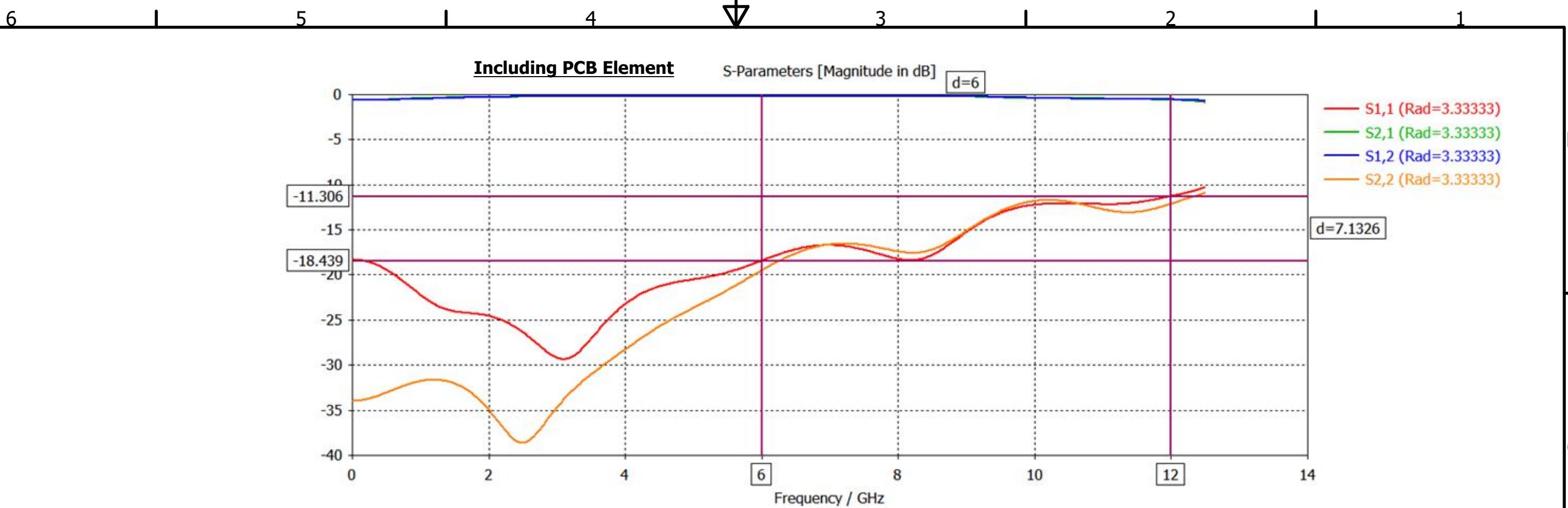
Environmental:

| | |
|---------------|--------------|
| Temp Ranges | -65 to +85°C |
| Mating Cycles | 250 |

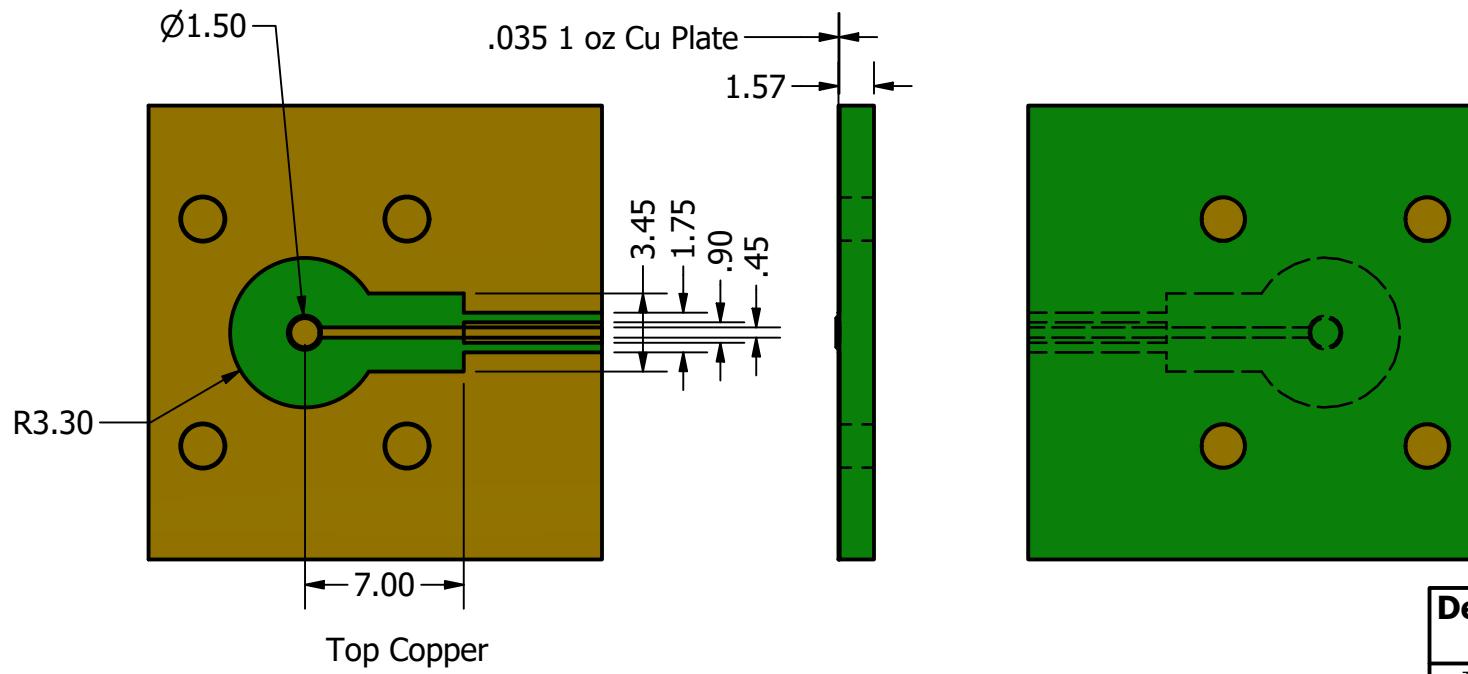
Processing:

| | |
|-------------|----------------------------|
| Hand Solder | |
| Wave Wolder | 260° MAX |
| Reflow | 245° MAX for 3 minuets MAX |

| Design Right Protected | Material: | Finish: | Gen Tol ±0.10 | DO NOT SCALE | |
|---|---|---|--|-----------------------------------|-----------------------|
| | | | | Unit of Measure: millimeters (mm) | |
| Third Angle Projection | Designed by Peter Fayers | Checked by | Approved by | ©2024 | Date 15 May 2015 A3 |
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Suggested PCB layout intended as starting point for design iteration



| Design Right Protected | | Material: | Finish: | Gen Tol ± 0.10 | DO NOT SCALE | |
|------------------------|--|---|------------|--|--------------|-----------------------------------|
| | | | | | | Unit of Measure: millimeters (mm) |
| Third Angle Projection | | Designed by Peter Fayers | Checked by | Approved by | ©2024 | Date 15 May 2015 |
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| | | Part No: XBS-12-RB35-NNN Cust | | Issue 3.0 | Sheet 3 / 3 | |