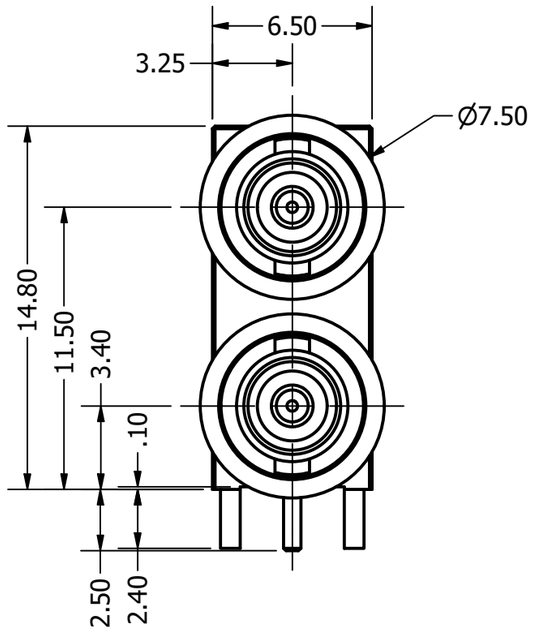
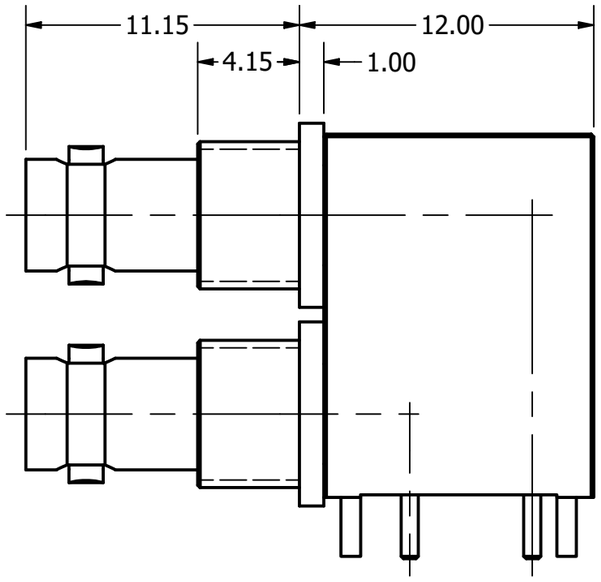
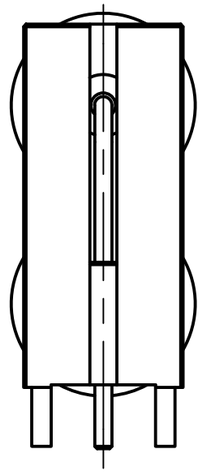
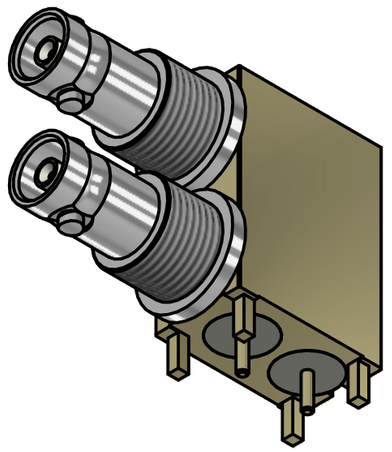
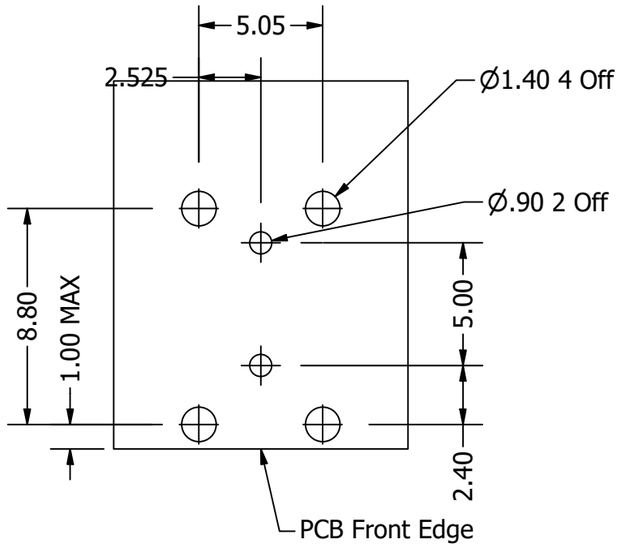


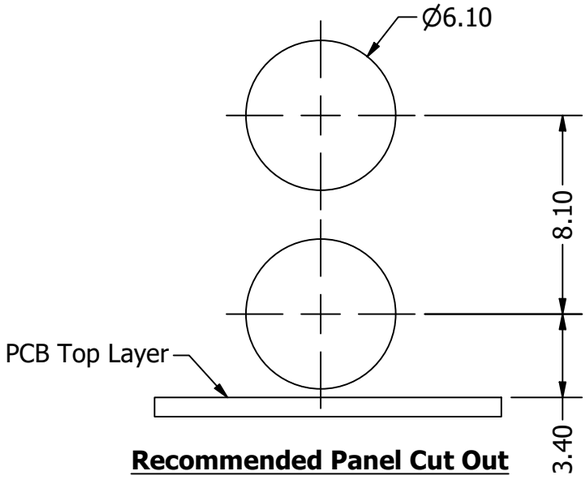



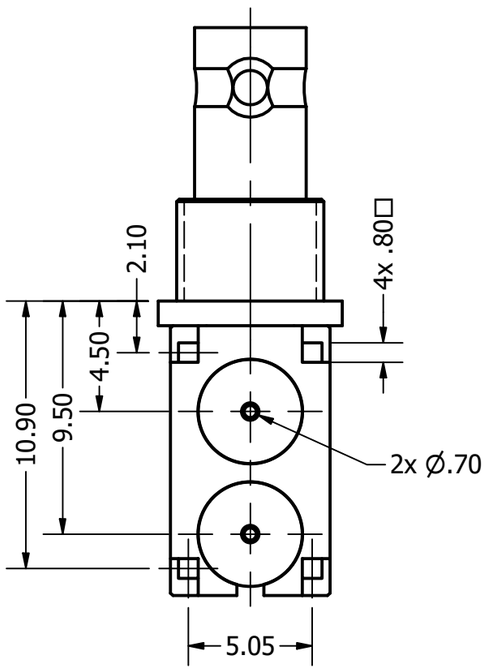





**Recommended PCB Footprint**




**Recommended Panel Cut Out**




| REVISION HISTORY | | | | |
|---|---|---|---|---|
| REV | DESCRIPTION | CHG REF | DATE | DESIGNER |
| 3.0 | Updated P/N | FB / INT | 01 Aug 2024 | Peter Millard |
| 3.1 | Bottom Insulators Now Common | FB / SUPP | 09 Dec 2024 | Peter Millard |
| 3.2 | Body now common | FB / SUPP | 19 Dec 2024 | Peter Millard |
| 3.3 | Updated Interface | FB / SUPP | 13 Jan 2025 | Peter Millard |

| | | | | | |
|---|---|---|---|---|---|
| **Design Right Protected** | Material: | Finish: | Gen Tol ±0.10 Angular ±2° | DO NOT SCALE | |
| Third Angle Projection | Designed by Peter Fayers | Checked by | Approved by | ©2024 | Date 18 Apr 2019 | A3 |
| **RoHS Compliant** | CAMBRIDGE ELECTRONIC INDUSTIRES | 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: 12GHz Micro BNC Dual Port Connector with enlarged flange | | |
| | | | Part No: XPS-12-RB24-GNDO Cust | Issue 3.3 | Sheet 1 / 2 |

**Electrical:**

| | |
|---|---|
| Impedance | 75 Ohms |
| Freq Range | 0-12.0 GHz |
| Working Voltage | 250 Vrms |
| Dielectric withstanding voltage | 750 Vrms |
| Reflection Factor (VSWR) | 1.56 Max 0.0-12.0 GHz |
| Contact Resistance | Center Contact 4.0 m Ohm |
| | Outer Contact 2.5 m Ohm |
| Insulation Resistance | > 1000 Meg Ohm |

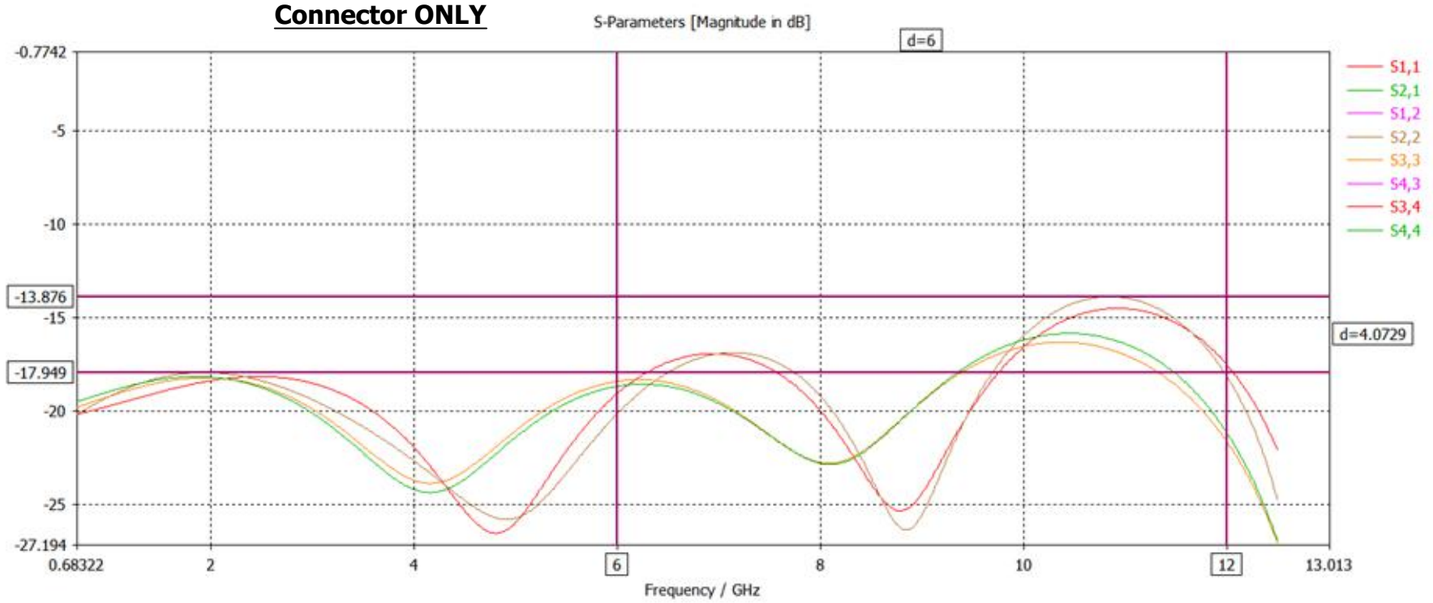
**Materials:**

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

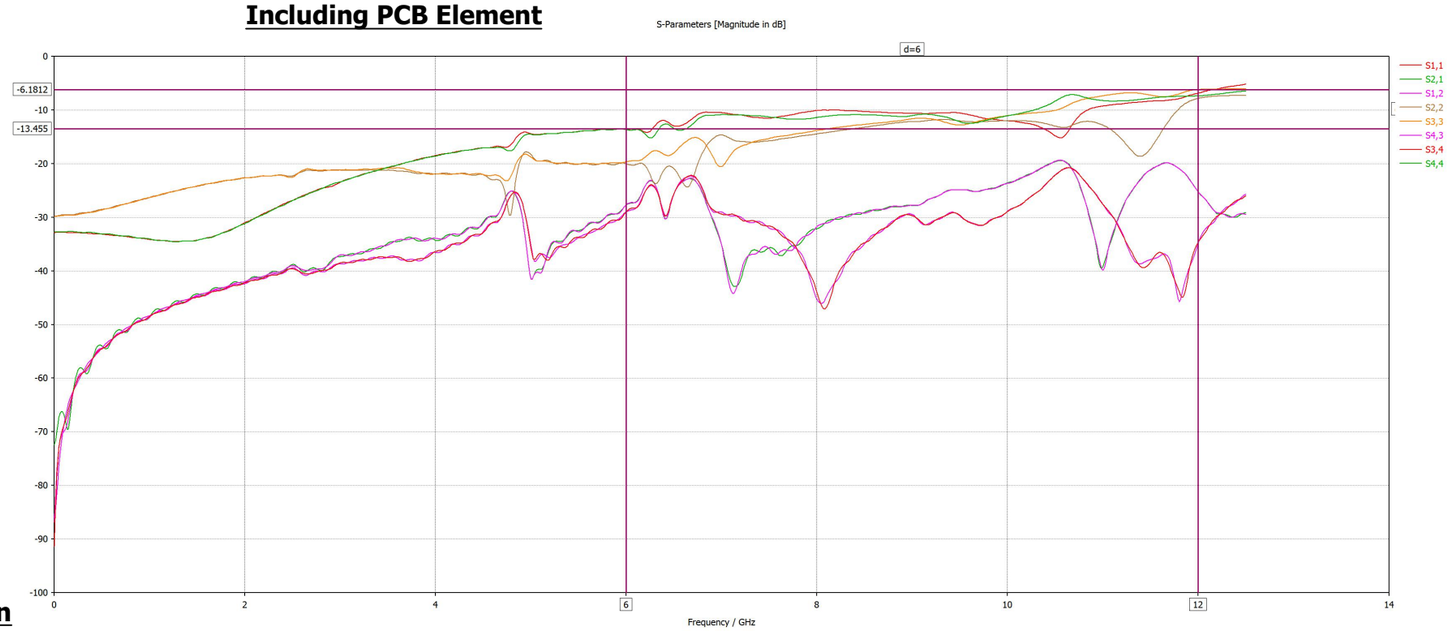
**Enviromental:**

| | |
|---|---|
| Temp Ranges: | -65 to +85°C |
| Mating Cycles: | 500 |
| Processing: | Hand or Wave solder Only 10-12s @260°C MAX |

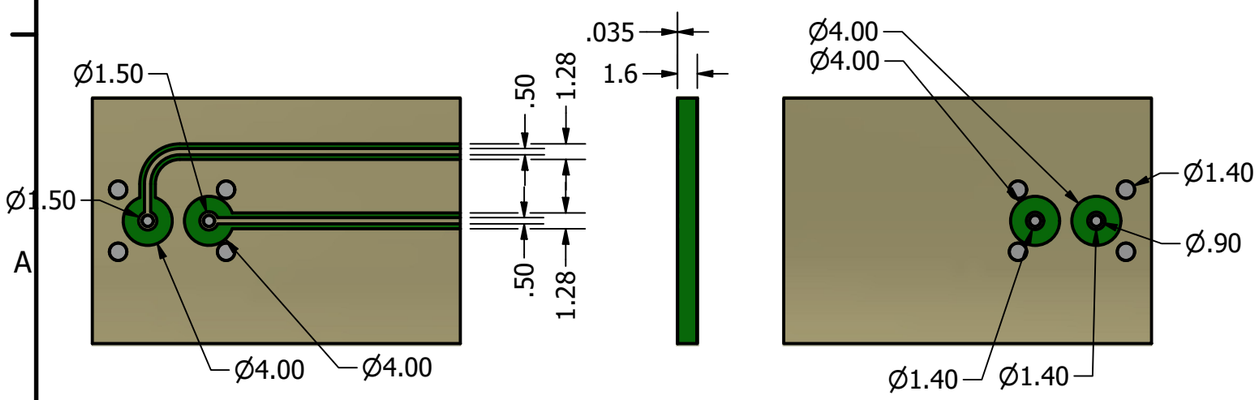
**Connector ONLY**




**Including PCB Element**




**Suggested PCB layout intended as starting point for design iteration**




| | | | | | | |
|---|---|---|---|---|---|---|
| Design Right Protected | Material: GFRC | Finish: | | Gen Tol ±0.10 Angular ±2° | DO NOT SCALE | |
| | | | | | Unit of Measure: millimeters (mm) | |
| Third Angle Projection | Designed by Peter Fayers | Checked by | Approved by | ©2024 | Date 18 Apr 2019 | A3 |
| RoHS Compliant | CAMBRIDGE ELECTRONIC INDUSTRIES | 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: 12GHz Micro BNC Dual Port Connector with enlarged flange | | | |
| | | | Part No: XPS-12-RB24-GNDO Cust | | Issue 3.3 | Sheet 2 / 2 |