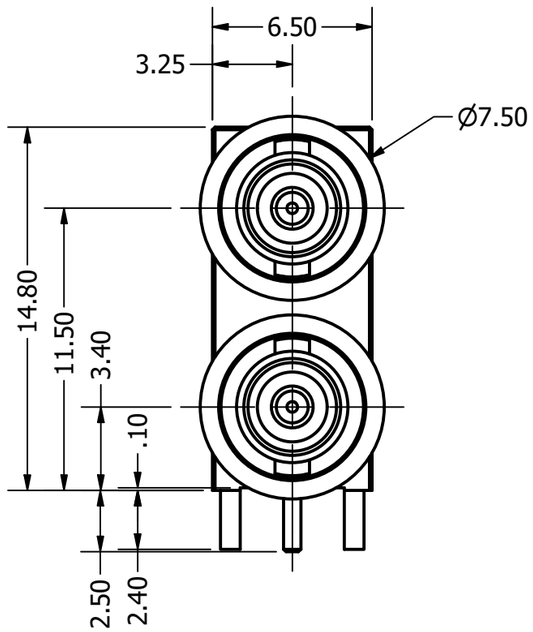
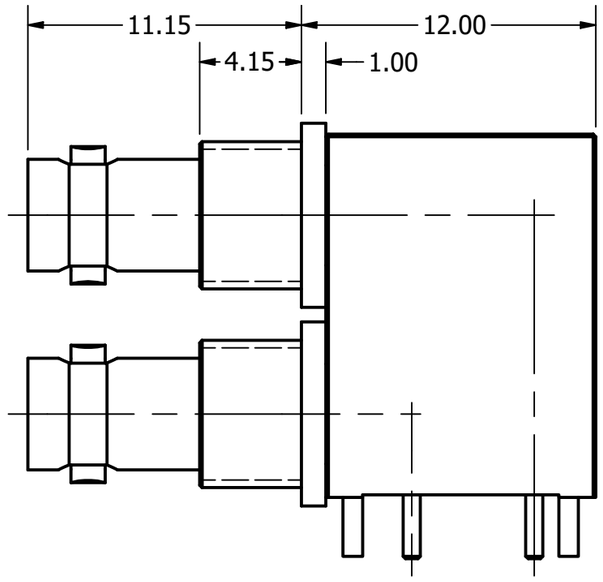
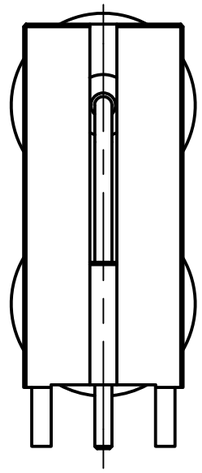
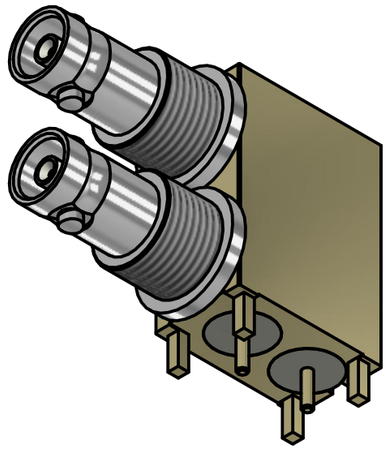
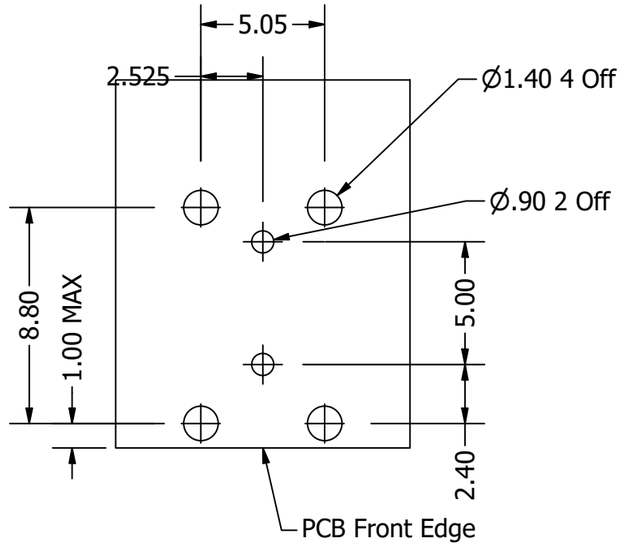




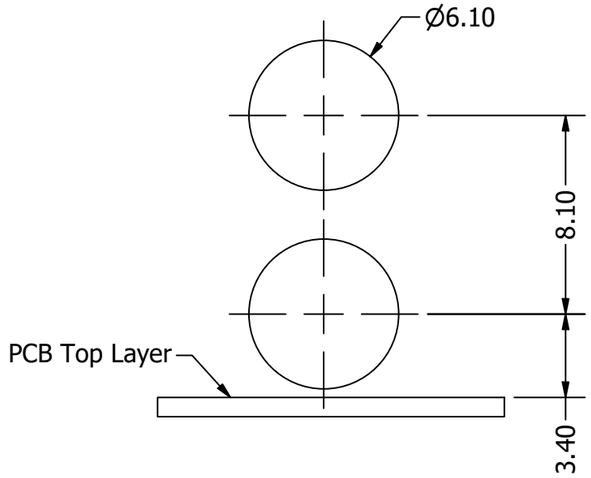


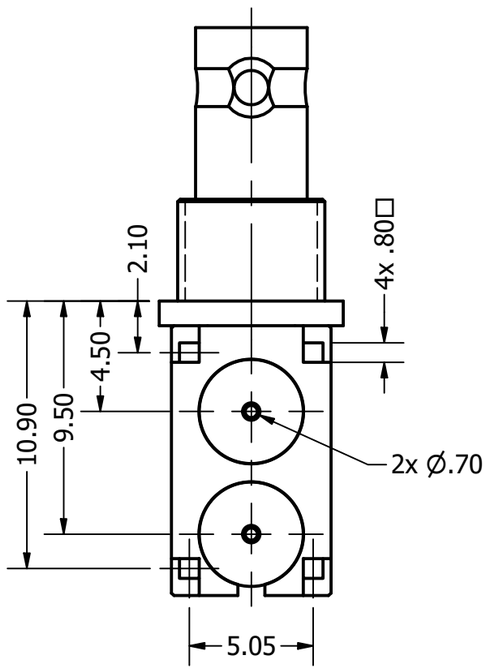


Recommended PCB footprint



Recommended panel cutout





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	
				Unit of Measure: millimeters (mm)	
Third Angle Projection	Designed by Peter Fayers	Checked by	Approved by	©2024	Date 18/04/2019	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: 75Ω Micro BNC Socket 12GHz Right Angle Bulkhead, 2.4mm Leg, Dual Port with Enlarged Flange		
			Part No: XPS-12-RB24-GNDO Cust	Issue 3.3	Sheet 1 / 2

Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	250 V_{RMS}
Dielectric withstanding voltage	>750 V_{RMS}
Reflection factor (VSWR)	1.56 MAX DC ~ 12.0 GHz
Contact resistance	Centre contact ≤4.0 mΩ
	Outer contact ≤2.5 mΩ
Insulation resistance	≥1000 MΩ

Materials:

Centre contact	Beryllium Copper / Au plated
Metal parts	Brass / Au & Ni plated
Insulators	Polytetrafluoroethylene

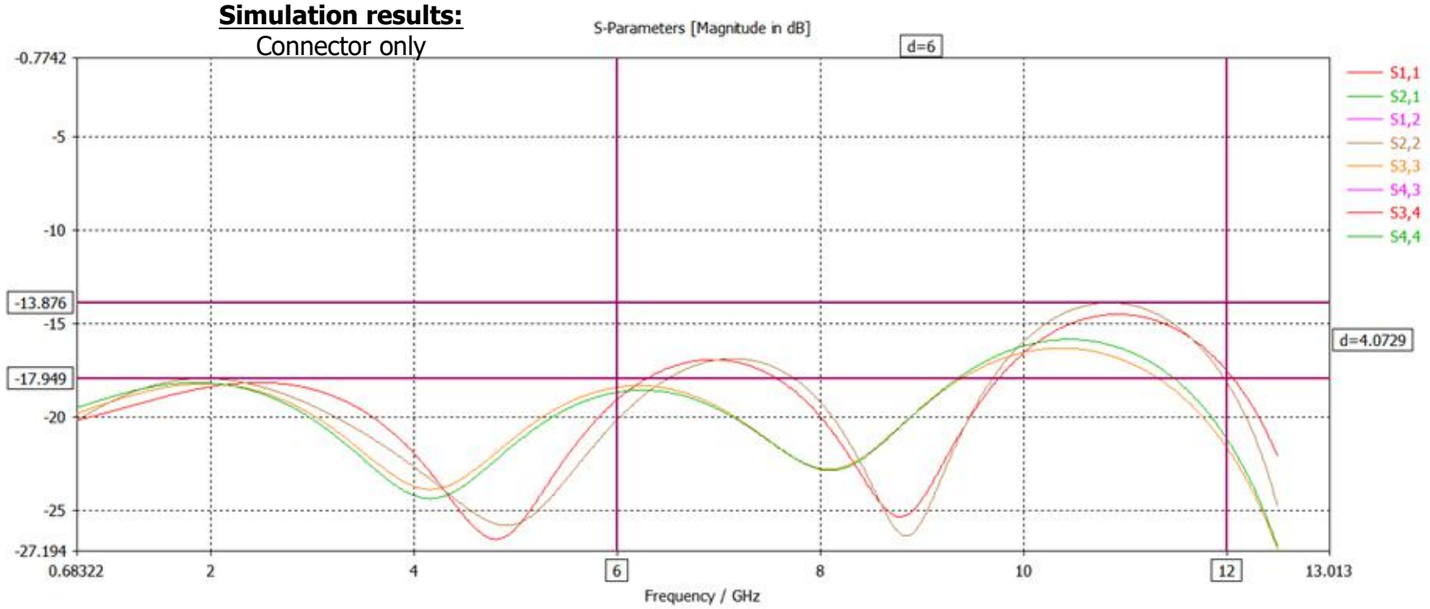
Environmental:

Temp ranges	-65 ~ +85°C
Mating cycles	500
Vibration	N/A
Salt spray	N/A

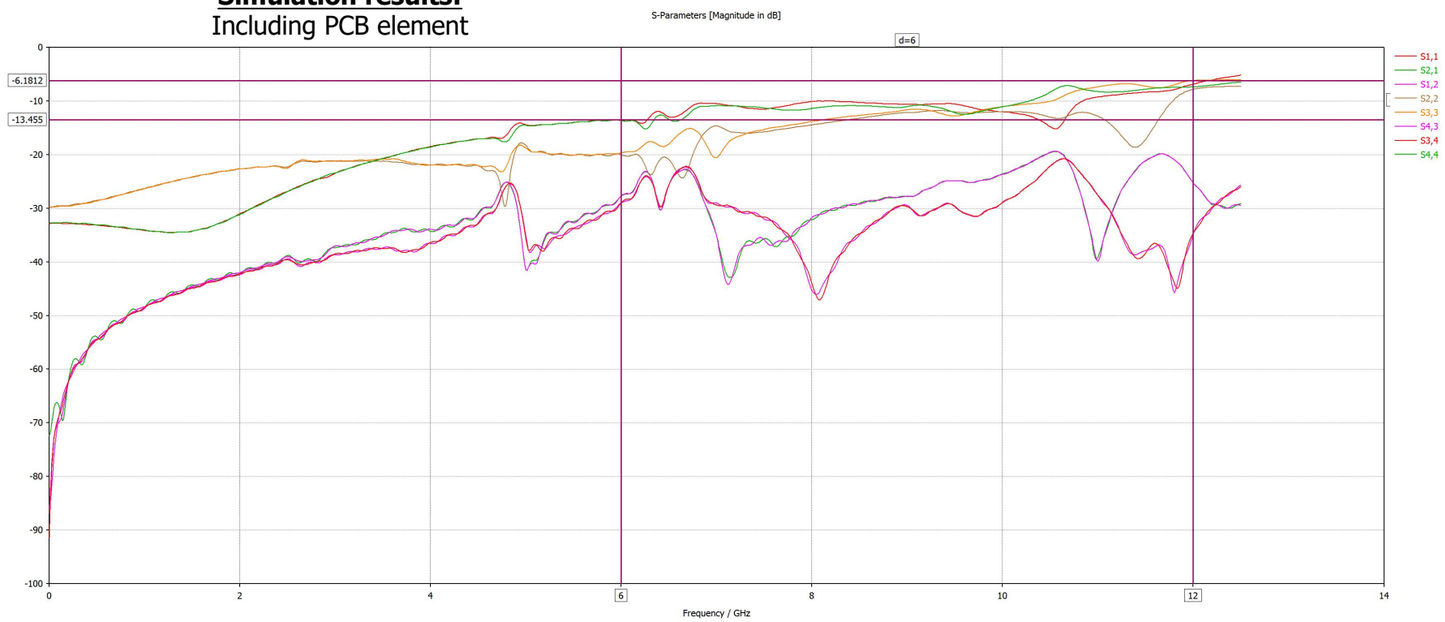
Processing:

Hand solder	Recommended / 260°C MAX 10 ~ 12 seconds dwell time
Wave solder	Recommended / 260°C MAX 10 ~ 12 seconds dwell time
Reflow solder	Not recommended

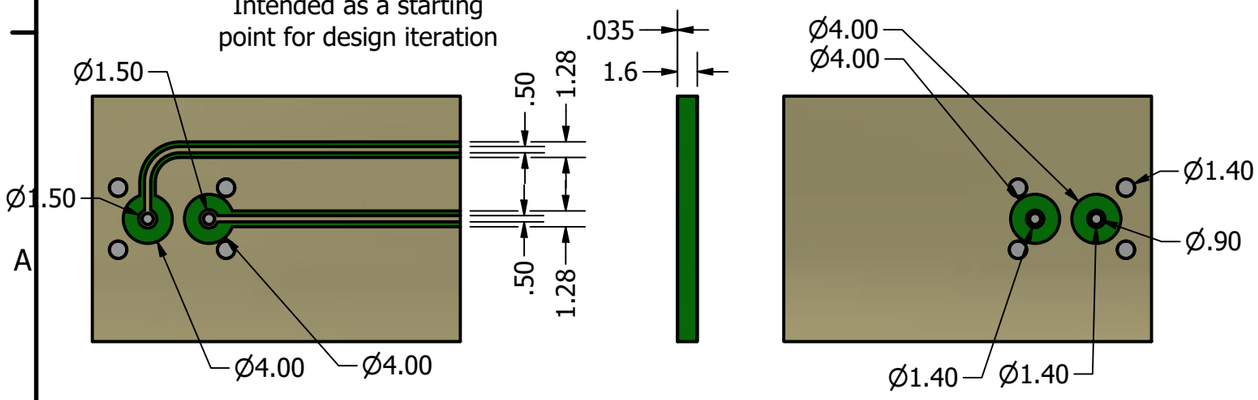
Simulation results:
Connector only



Simulation results:
Including PCB element



Suggested PCB layout
Intended as a starting point for design iteration



Design Right Protected	Material: GFRC	Finish:		Gen Tol ±0.10 Angular ±2°	DO NOT SCALE	
Third Angle Projection	Designed by Peter Fayers	Checked by	Approved by	©2024	Unit of Measure: millimeters (mm) Date 18/04/2019	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: 75Ω Micro BNC Socket 12GHz Right Angle Bulkhead, 2.4mm Leg, Dual Port with Enlarged Flange		Part No: XPS-12-RB24-GNDO Cust	Issue 3.3 / Sheet 2 / 2