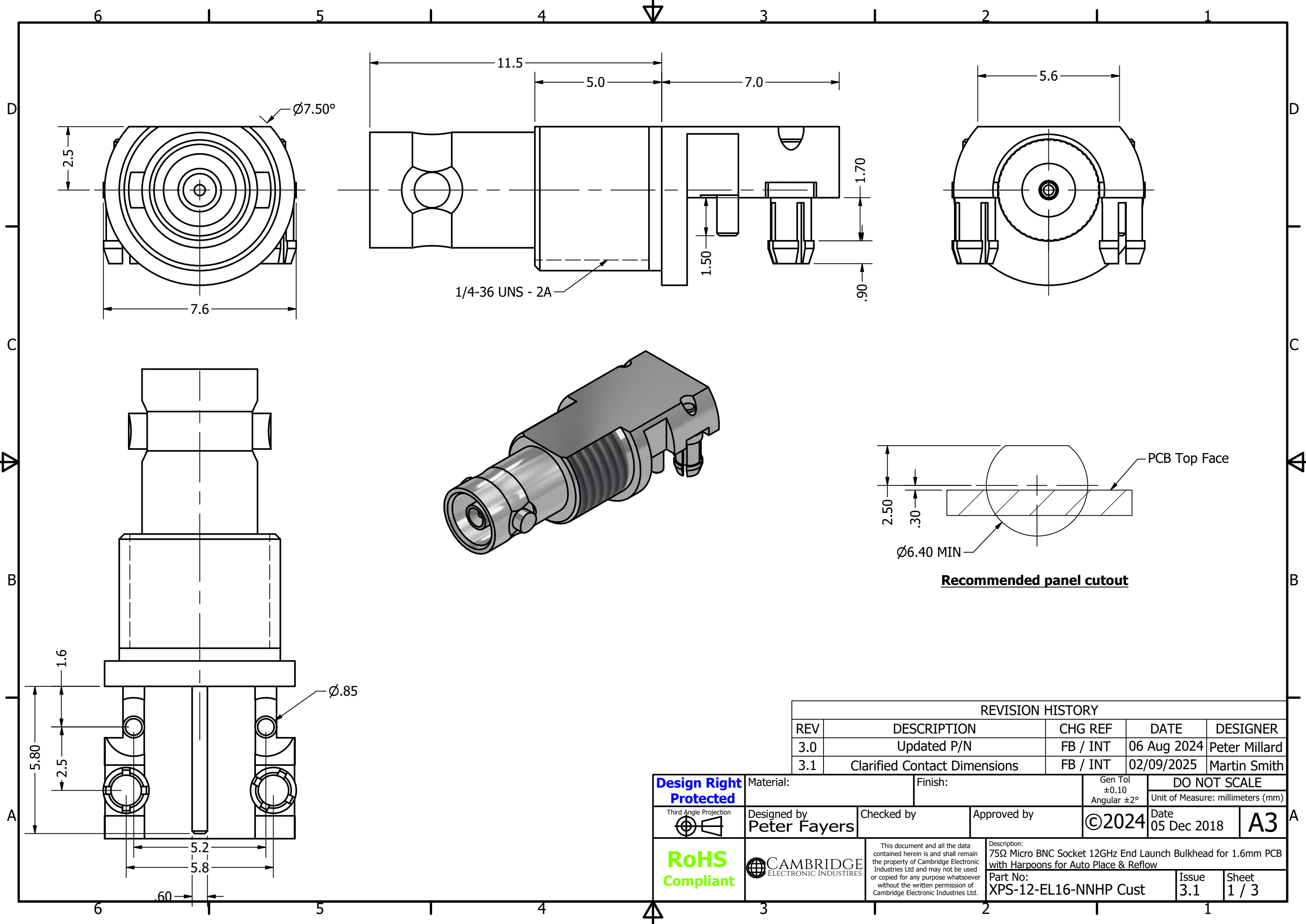




REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
3.0	Updated P/N	FB / INT	06 Aug 2024	Peter Millard
3.1	Clarified Contact Dimensions	FB / INT	02/09/2025	Martin Smith

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 05 Dec 2018	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: 75Ω Micro BNC Socket 12GHz End Launch Bulkhead for 1.6mm PCB with Harpoons for Auto Place & Reflow				
					Part No: XPS-12-EL16-NNHP Cust		Issue 3.1		Sheet 1 / 3

D

Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	170 V _{RMS}
Dielectric withstanding voltage	>500 V _{RMS}
Reflection factor (VSWR)	1.05 MAX DC ~ 6.0 GHz 1.09 MAX DC ~ 12.0 GHz
Contact resistance	Centre contact ≤5.0 mΩ Outer contact ≤2.5 mΩ
Insulation resistance	≥1000 MΩ

C

Materials:

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

B

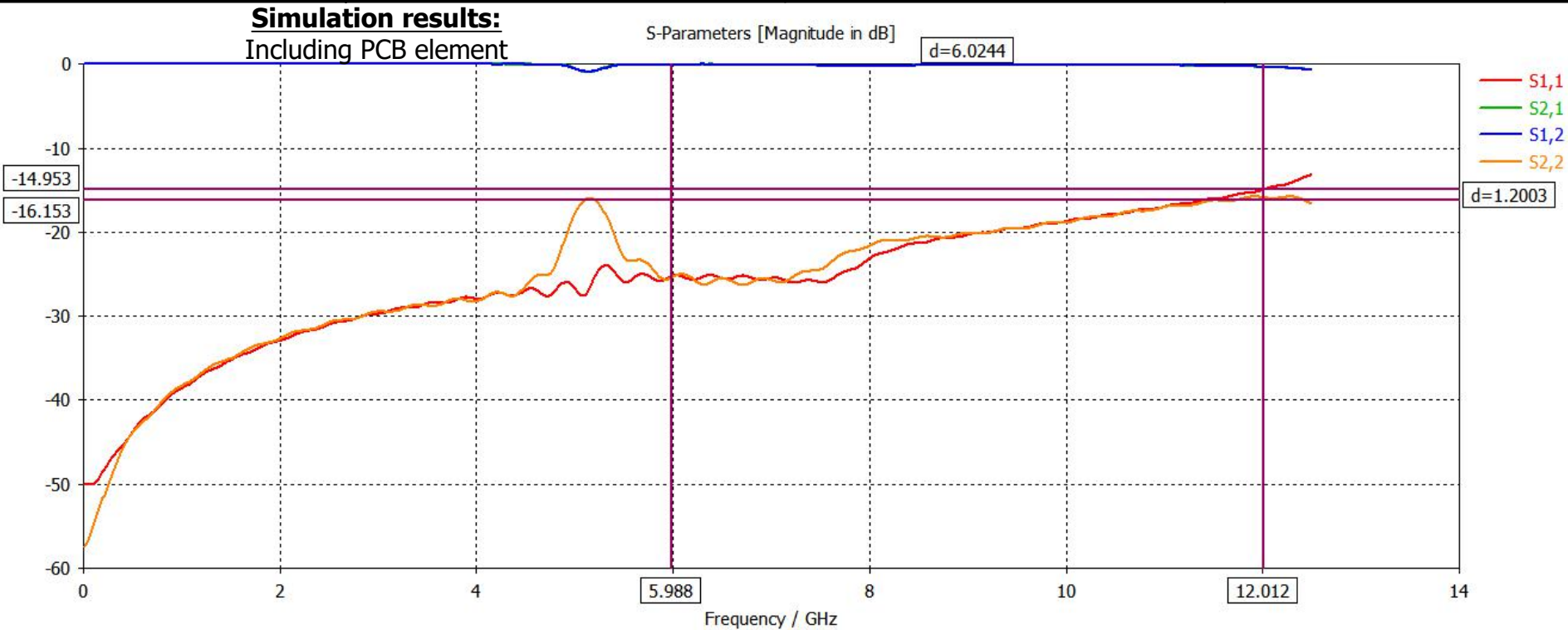
Environmental:

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

A

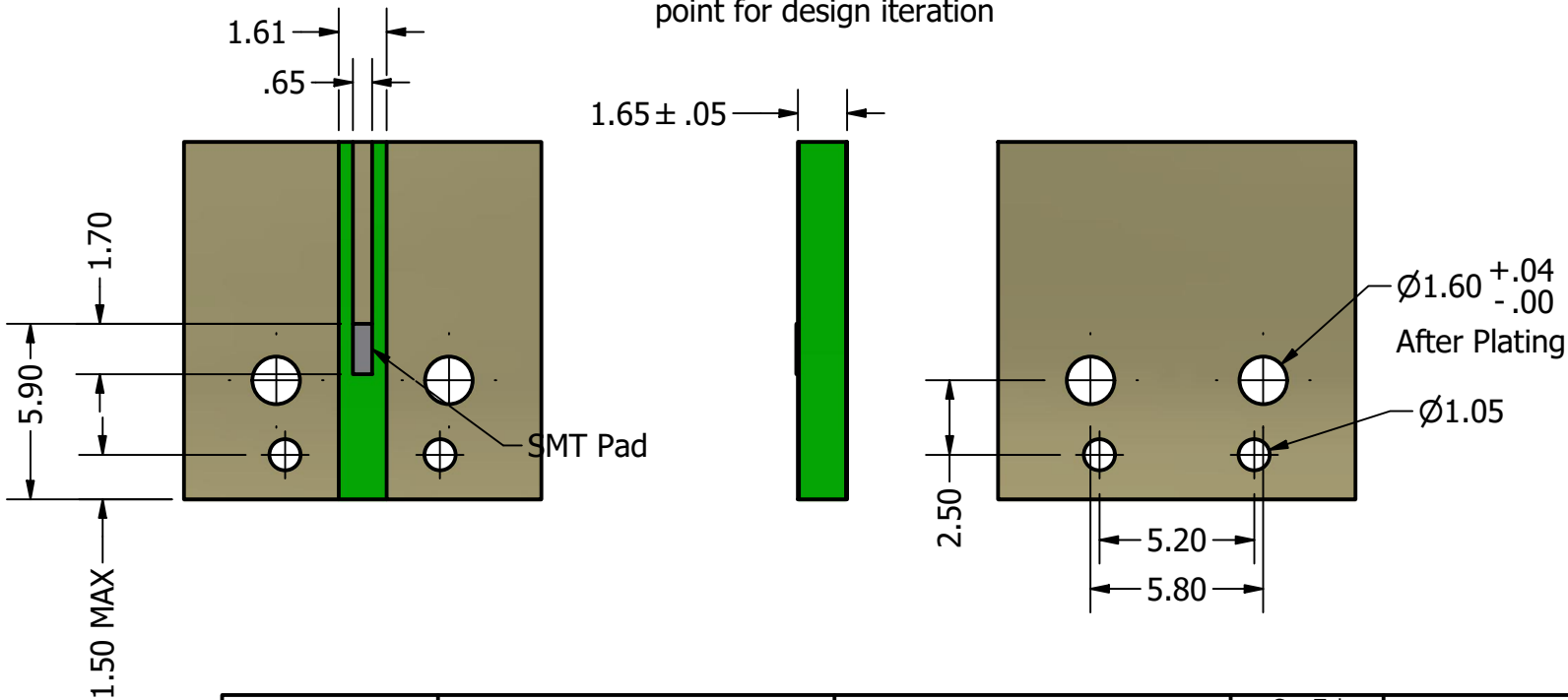
Processing:

Hand solder	Not recommended
Wave solder	Not recommended
Reflow solder	Recommended / 245°C MAX

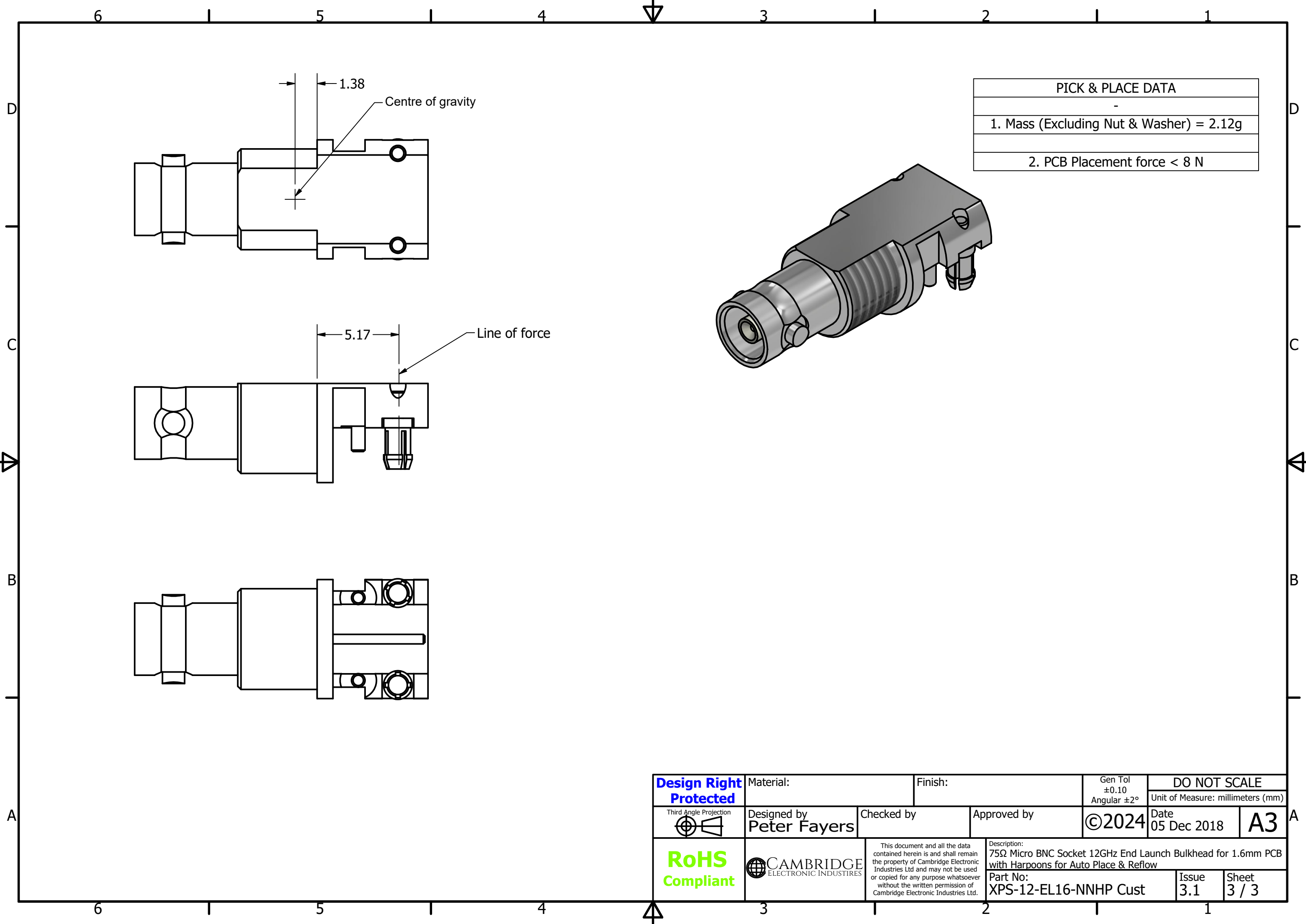


Suggested PCB layout

Intended as a starting point for design iteration



Design Right Protected	Material:		Finish:		Gen Tol ±0.10 Angular ±2°	DO NOT SCALE		
						Unit of Measure: millimeters (mm)		
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				Part No: XPS-12-EL16-NNHP Cust			Issue 3.1	Sheet 2 / 3



PICK & PLACE DATA
-
1. Mass (Excluding Nut & Washer) = 2.12g
2. PCB Placement force < 8 N

Design Right Protected	Material:		Finish:		Gen Tol ±0.10 Angular ±2°		DO NOT SCALE	
	Designed by Peter Fayers		Checked by		Approved by		Unit of Measure: millimeters (mm)	
Third Angle Projection					©2024		Date 05 Dec 2018	A3
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					Part No: XPS-12-EL16-NNHP Cust		Issue 3.1	Sheet 3 / 3