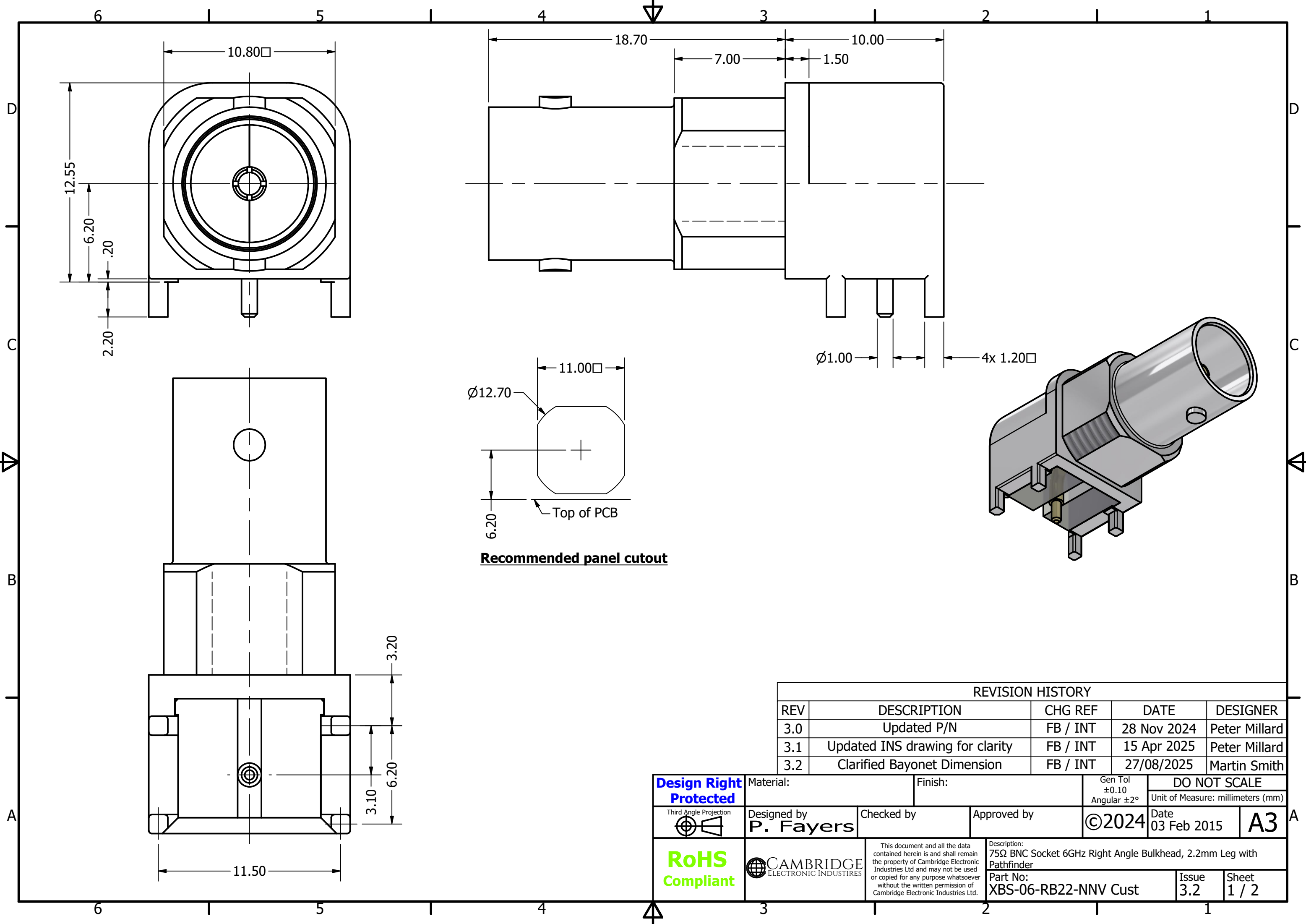




Recommended panel cutout

REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
3.0	Updated P/N	FB / INT	28 Nov 2024	Peter Millard
3.1	Updated INS drawing for clarity	FB / INT	15 Apr 2025	Peter Millard
3.2	Clarified Bayonet Dimension	FB / INT	27/08/2025	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 P. Fayers		Checked by		Approved by	©2024	Date 03 Feb 2015	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 BNC Socket 6GHz Right Angle Bulkhead, 2.2mm Leg with Pathfinder				
					Part No: XBS-06-RB22-NNV Cust			Issue 3.2	Sheet 1 / 2

A3

Electrical:

Impedance	75Ω
Frequency range	DC ~ 6.0 GHz
Working voltage	500 V _{RMS}
Dielectric withstanding voltage	1500 V _{RMS}
Reflection factor (VSWR)	1.16 MAX DC ~ 3.0 GHz 1.49 MAX DC ~ 6.0 GHz
Contact resistance	Centre contact ≤1.5 mΩ Outer contact ≤1.0 mΩ
Insulation resistance	≥5000 MΩ

Materials:

Centre contact	Phosphor Bronze / Au plated
Metal parts	Zinc Alloy / Ni plated
Insulators	TPX

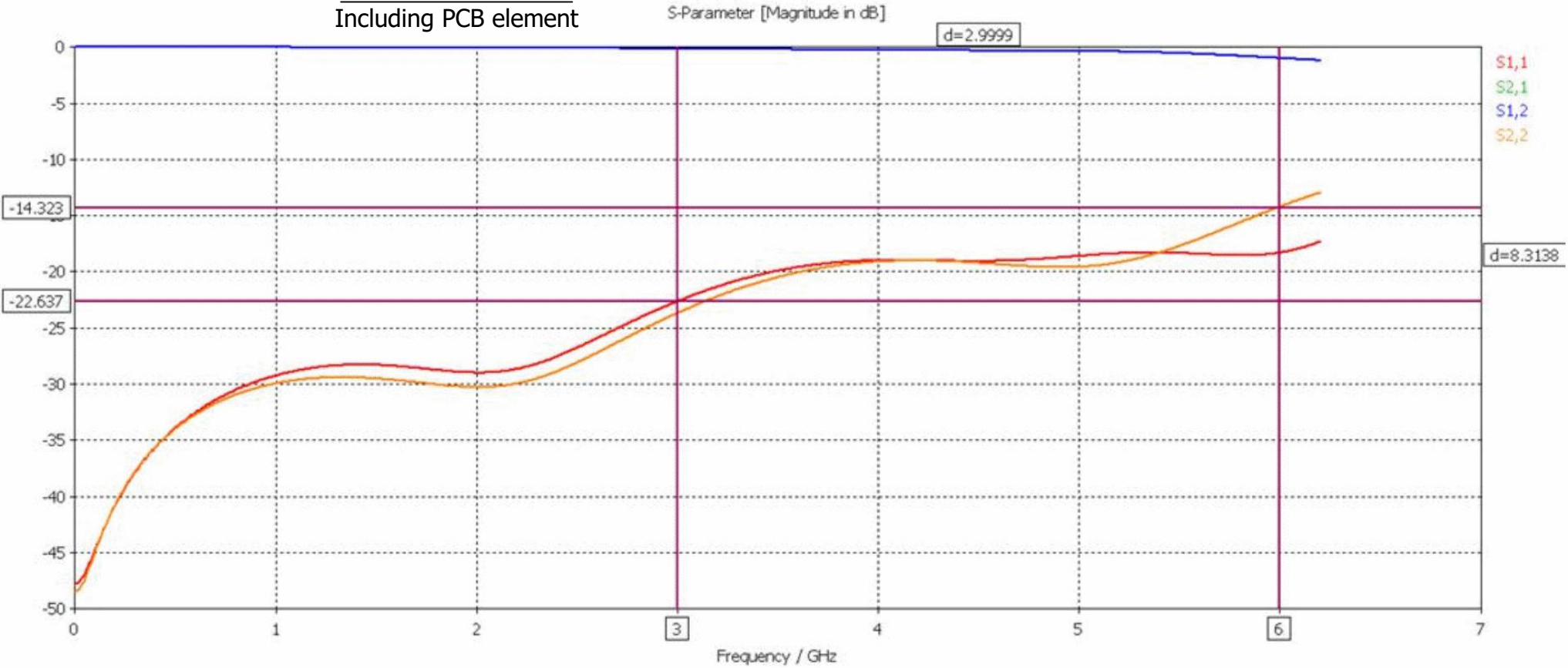
Environmental:

Temp ranges	-65 ~ +85°C
Mating cycles	250
Vibration	N/A MIL-STD-202 method 204 test condition B
Salt spray	N/A MIL-STD-202 method 101 test condition B

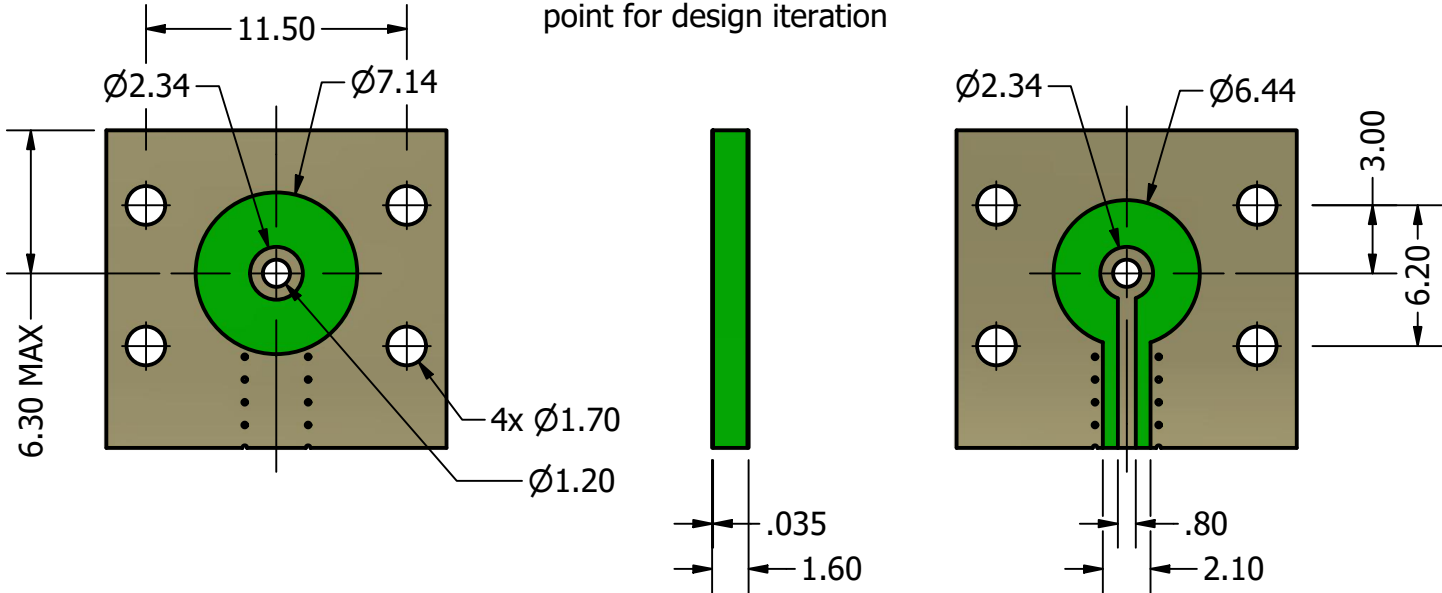
Processing:

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:
Including PCB element



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	
	Designed by P. Fayers		Checked by		Approved by		Unit of Measure: millimeters (mm)	
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