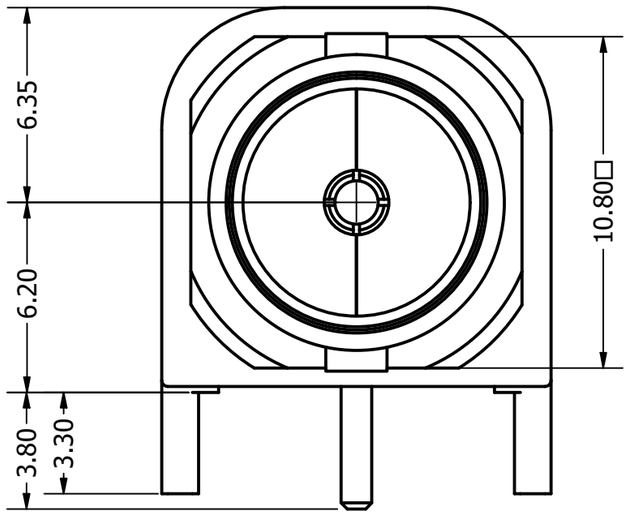
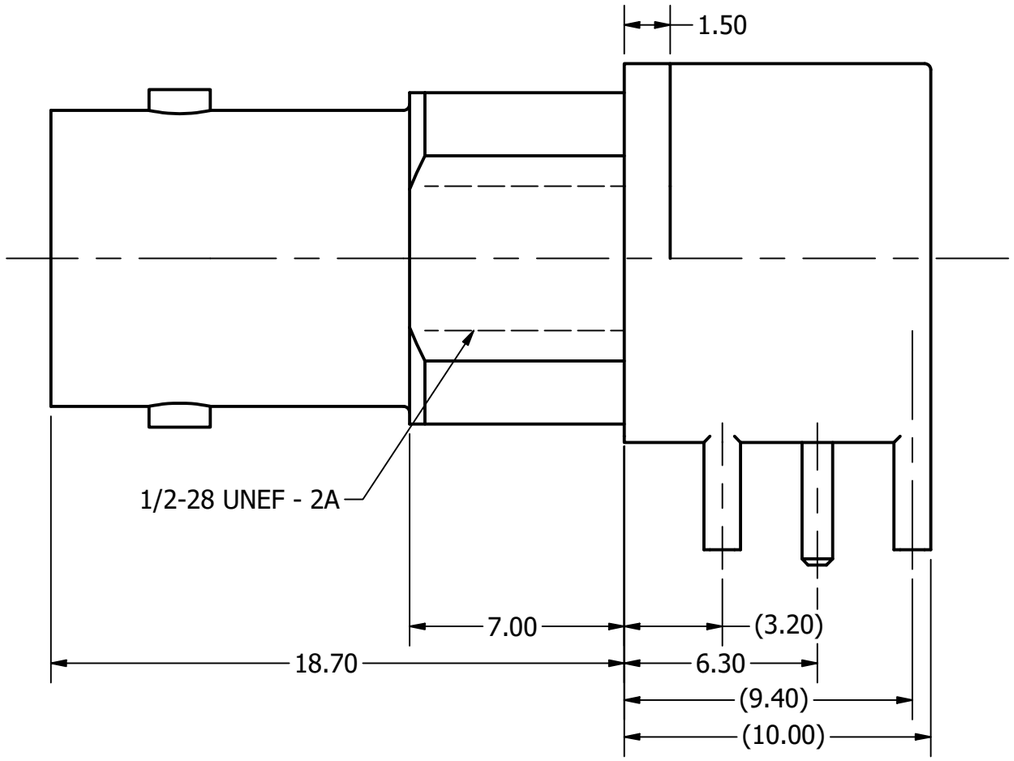
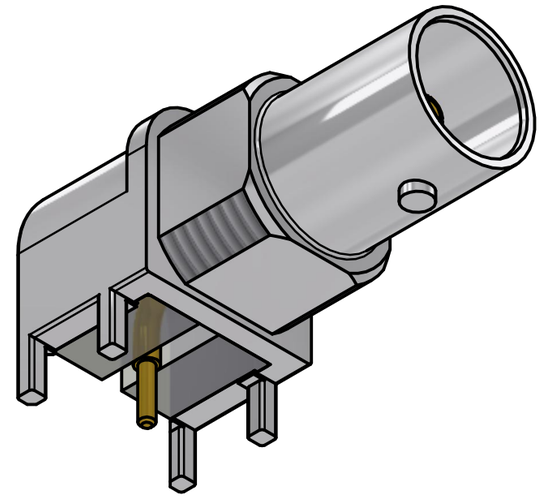
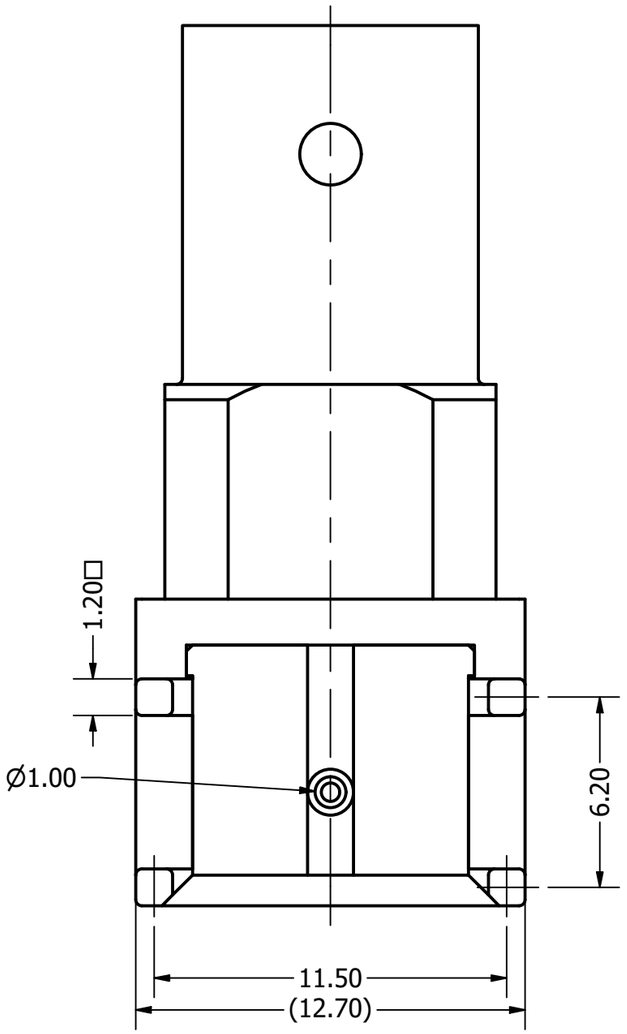
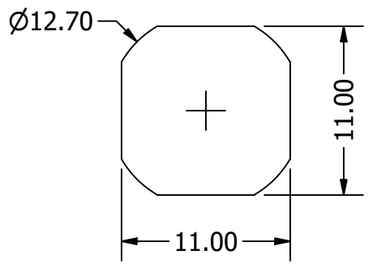








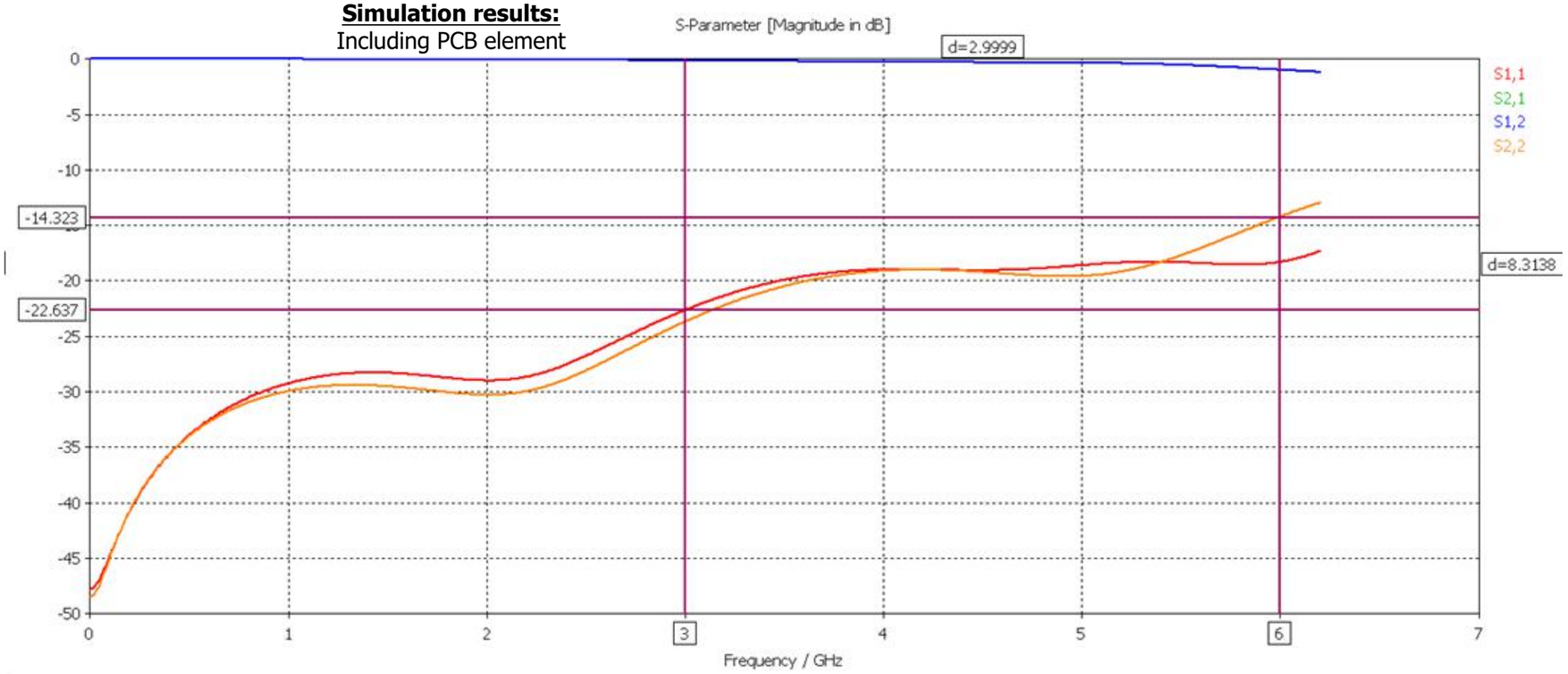


Recommended panel cutout

REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
3.0	Updated P/N	FB / INT	12 Feb 2024	Peter Millard
3.1	Updated INS Drawing for clarity	FB / INT	15 Apr 2025	Peter Millard
3.2	Clarified dimensions on contact	FB / INT	21 Aug 2025	Martin Smith
3.3	Updated conflicting dimensions	FB / INT	28 Aug 2025	Peter Millard

Design Right Protected	Material:	Finish:		Gen Tol ±0.10	DO NOT SCALE Unit of Measure: millimeters (mm)	
Third Angle Projection	Designed by P. Fayers	Checked by	Approved by	©2024	Date 09 Apr 2009	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 BNC Socket 6GHz Right Angle Bulkhead, 3.3mm Leg with Pathfinder			
			Part No: XBS-06-RB33-NNV Cust	Issue 3.3	Sheet 1 / 2	

Simulation results:
Including PCB element



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 ~ 6.0 GHz
	1.49 MAX DC ~ 12.0 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

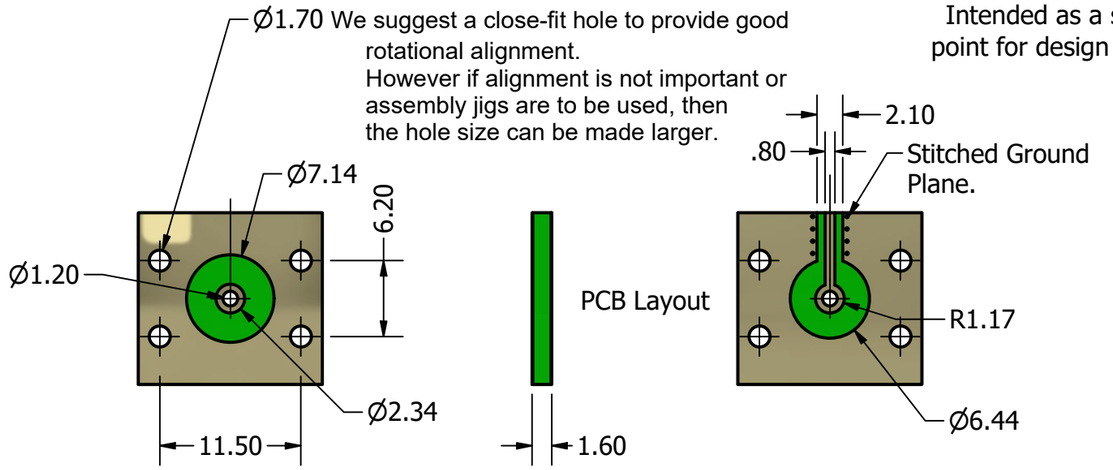
Environmental:

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

Processing:

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

Suggested PCB layout
Intended as a starting point for design iteration



Design Right Protected	Material:	Finish:		Gen Tol ±0.10	DO NOT SCALE Unit of Measure: millimeters (mm)
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			Part No: XBS-06-RB33-NNV Cust	Issue 3.3	Sheet 2 / 2