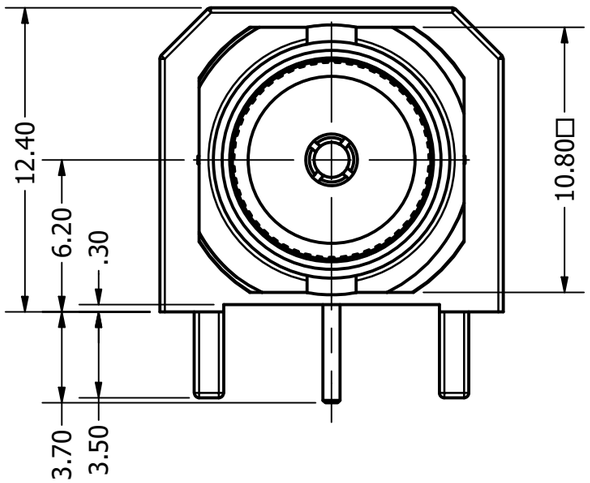
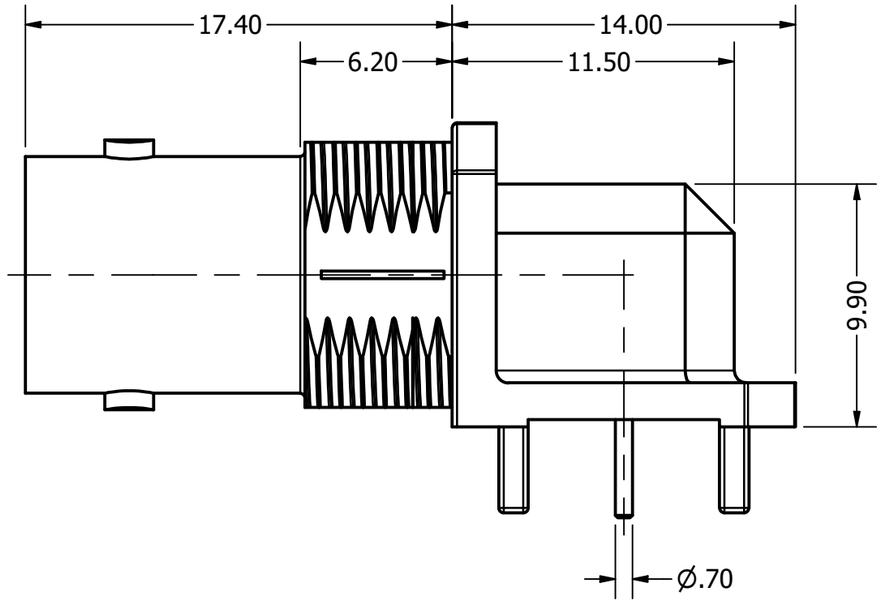
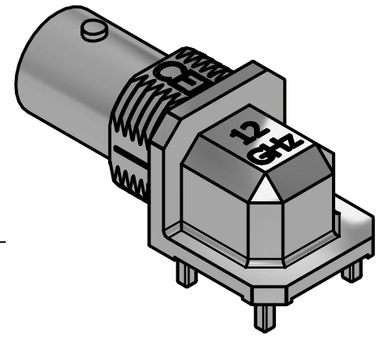
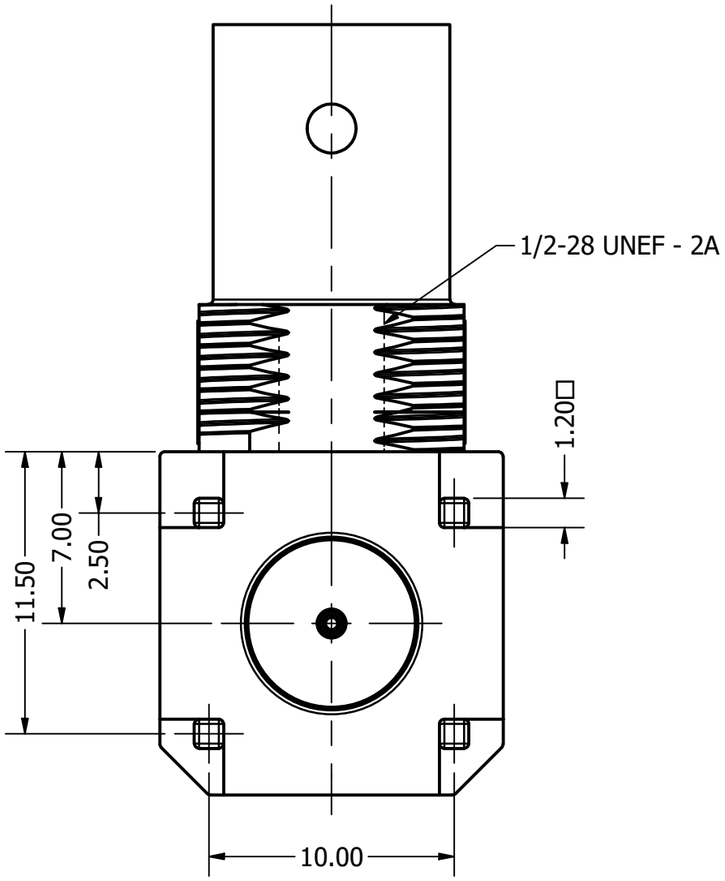
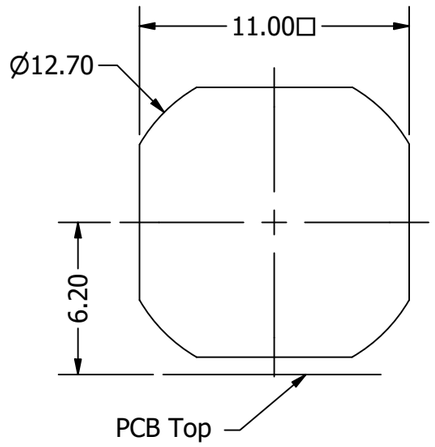




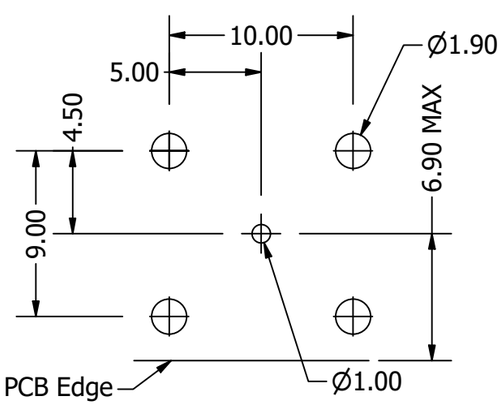




Recommended panel cutout



Recommended PCB footprint



REVISION HISTORY			
REV	DESCRIPTION	DATE	DESIGNER
3.0	Updated P/N	30 Oct 2024	Peter Millard
3.1	Updated to contact	18 Mar 2025	Peter Millard
3.2	Added Chamfer to Insulator	25 Sep 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 22/05/2014	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 12GHz Right Angle Bulkhead, 3.5mm Leg			
			Part No: XBS-12-RB35-NN Cust		Issue 3.2	Sheet 1 / 3

Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	500 VRMS
Dielectric withstanding voltage	1500 VRMS
Reflection factor (VSWR)	1.10 MAX DC ~ 6.0 GHz
	1.14 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	Polytetrafluoroethylene

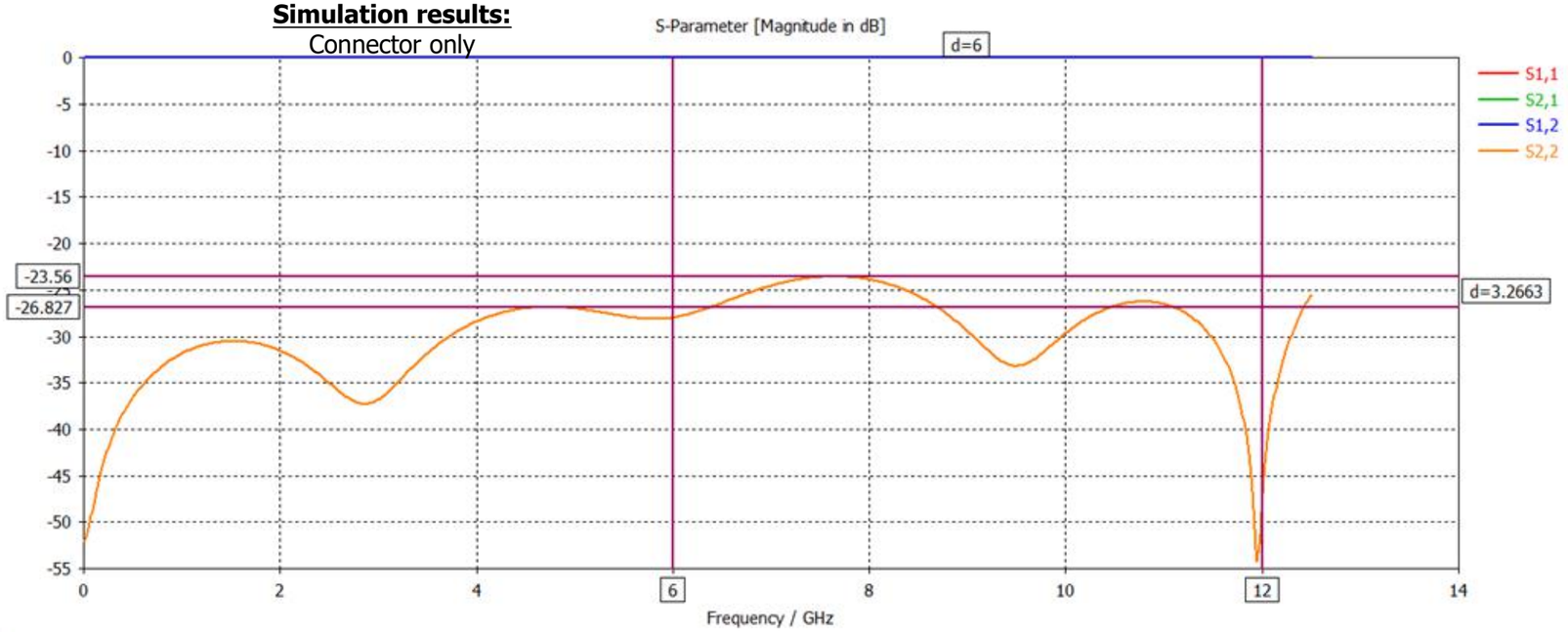
Environmental:

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

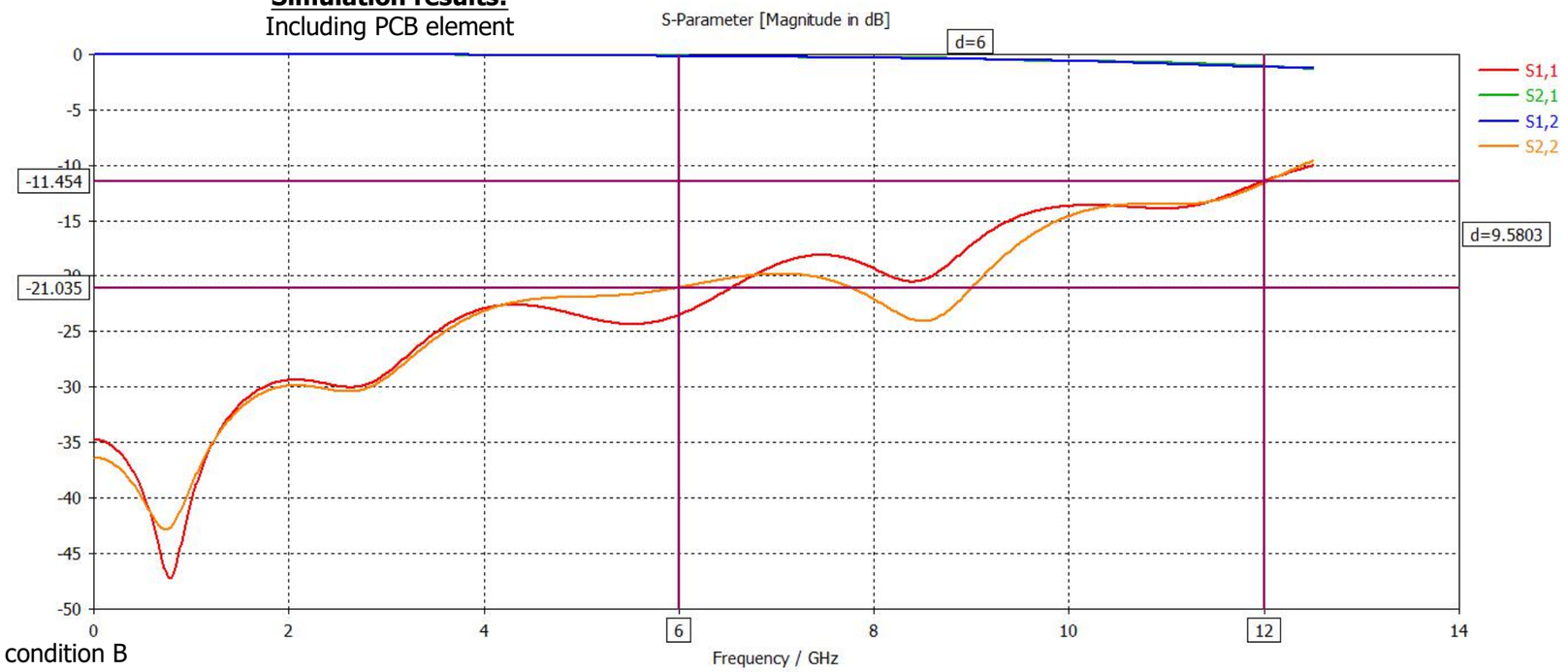
Processing:

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:
Connector only

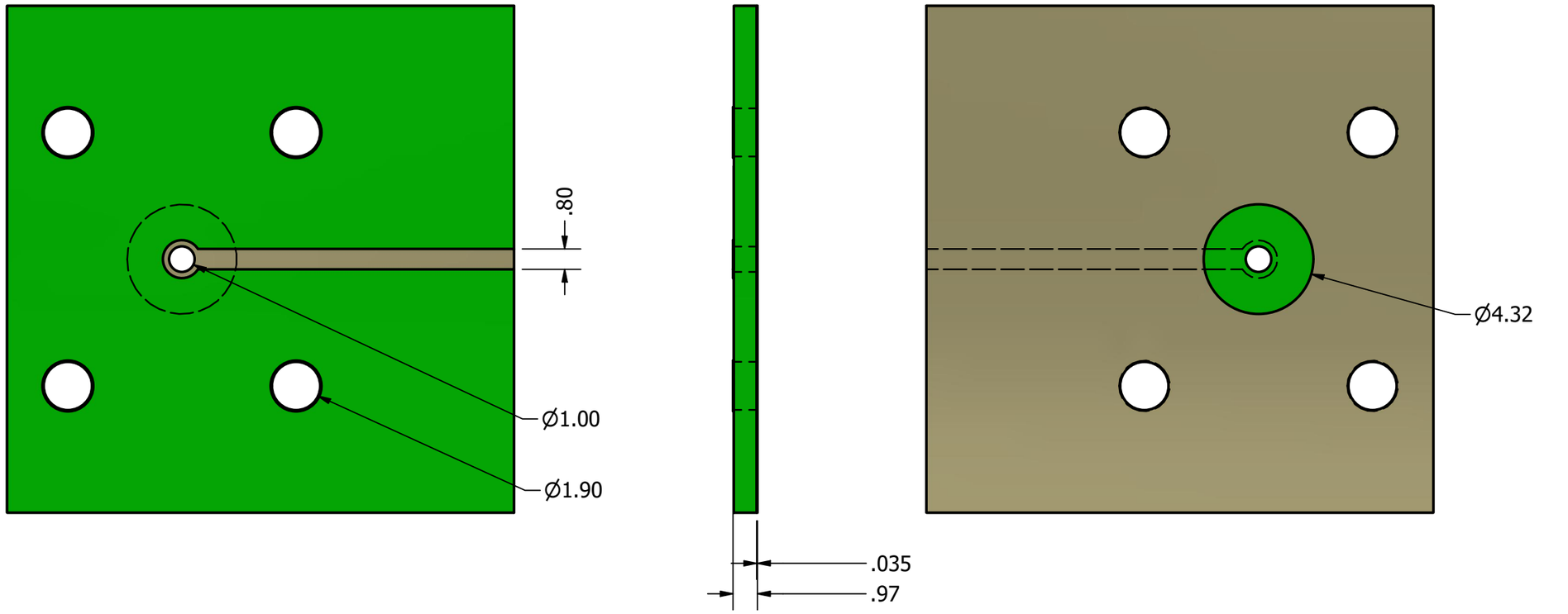


Simulation results:
Including PCB element



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 22 May 2014	A3
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			Part No: XBS-12-RB35-NN Cust		Issue 3.2	Sheet 2 / 3

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)	
Third Angle Projection	Designed by Peter Fayers	Checked by	Approved by	©2024	Date 22 May 2014	A3
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			Part No: XBS-12-RB35-NN Cust	Issue 3.2	Sheet 3 / 3