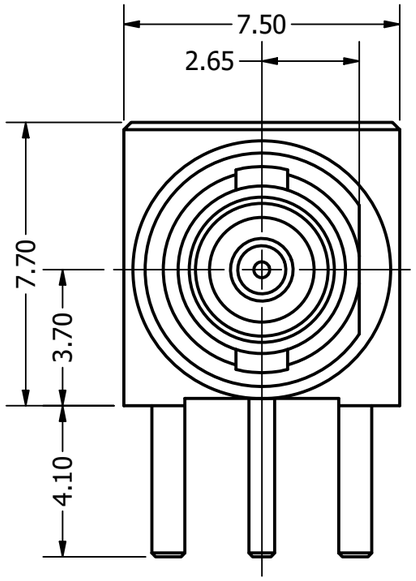
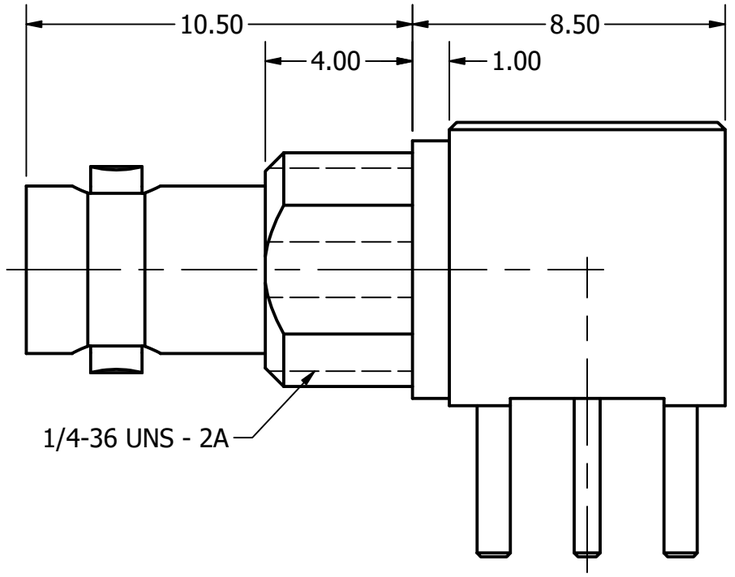
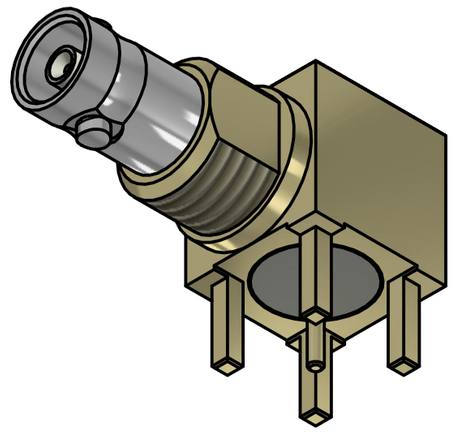
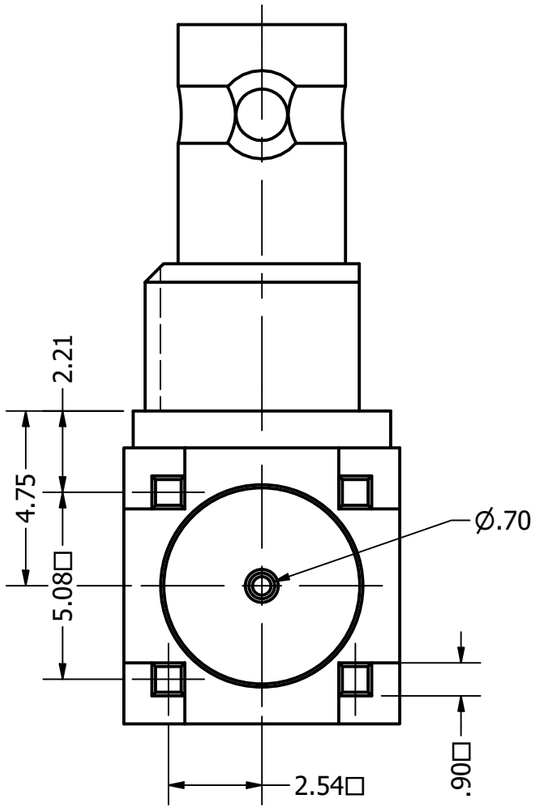
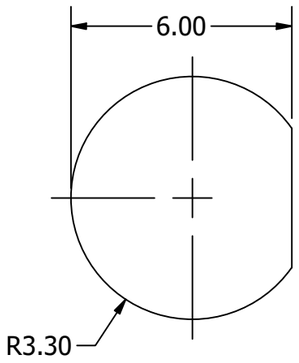








Recommended panel cutout



REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
3.0	Updated P/N	FB / INT	29 Jul 2024	Peter Millard
3.1	Updated PCB & Panel	FB / SUPP	09 Dec 2024	Peter Millard
3.2	Updated PCB	FB / SUPP	19 Dec 2024	Peter Millard
3.3	Added thread, updated panel note	FB / INT	17 Jul 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 04 Apr 2013

A3

RoHS Compliant

CAMBRIDGE ELECTRONIC INDUSTRIES

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Description: 75Ω Micro BNC Socket 12GHz Right Angle Bulkhead, 4.1mm Leg

Part No: XPS-12-RB41-GN Cust

Issue 3.3

Sheet 1 / 2

Electrical:

Impedance	75Ω
Frequency range	DC ~ 25.0 GHz
Working voltage	170 V_{RMS}
Dielectric withstanding voltage	>500 V_{RMS}
Reflection factor (VSWR)	1.04 MAX DC ~ 6.0 GHz
	1.10 MAX DC ~ 12.0 GHz
	1.56 MAX DC ~ 25.0 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

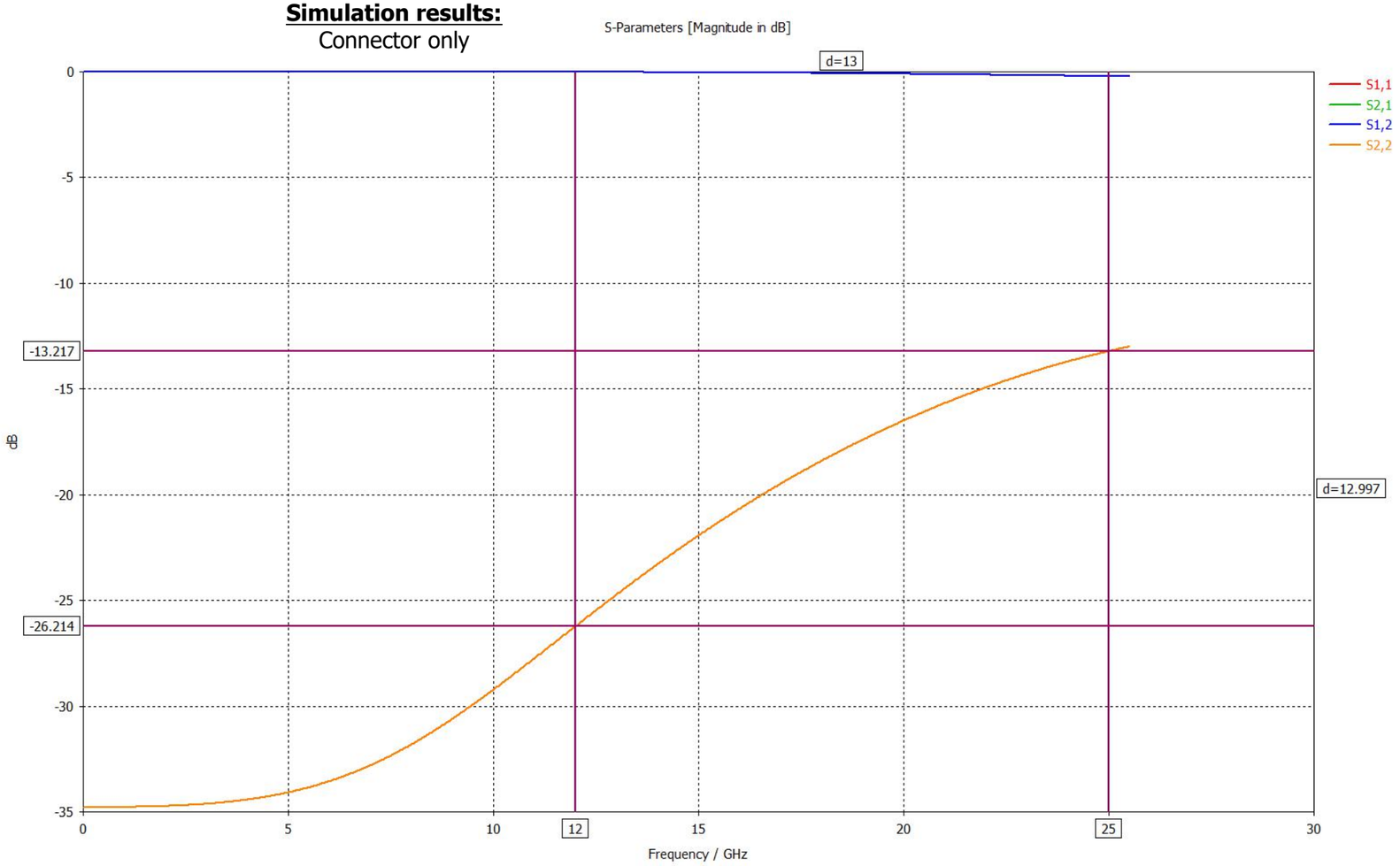
Environmental:

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

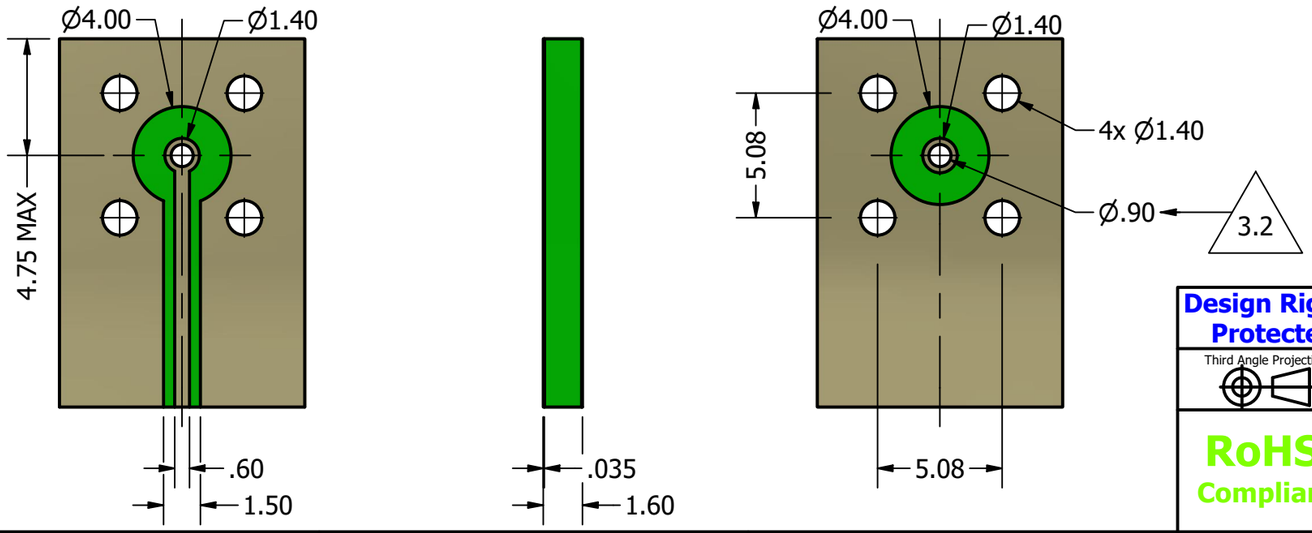
Processing:

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



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 04 Apr 2013	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 Right Angle Bulkhead, 4.1mm Leg			
			Part No: XPS-12-RB41-GN Cust		Issue 3.3	Sheet 2 / 2