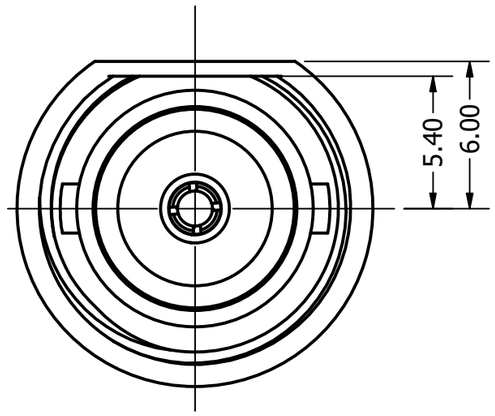
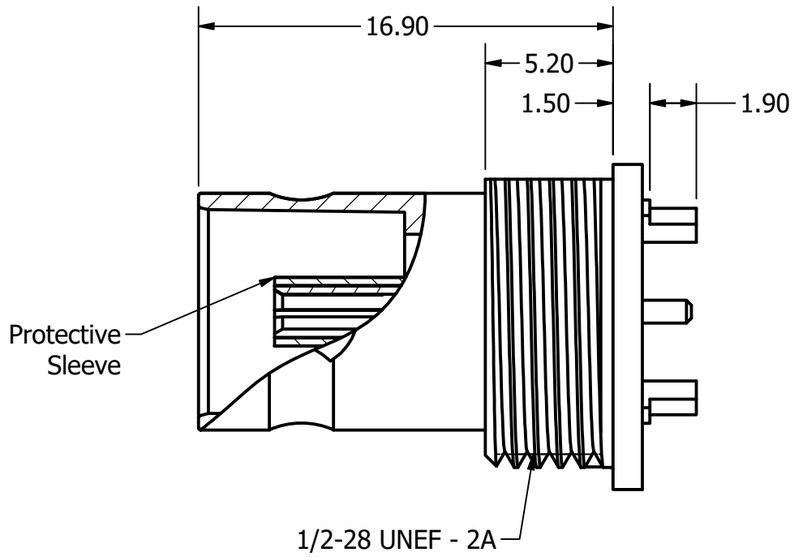
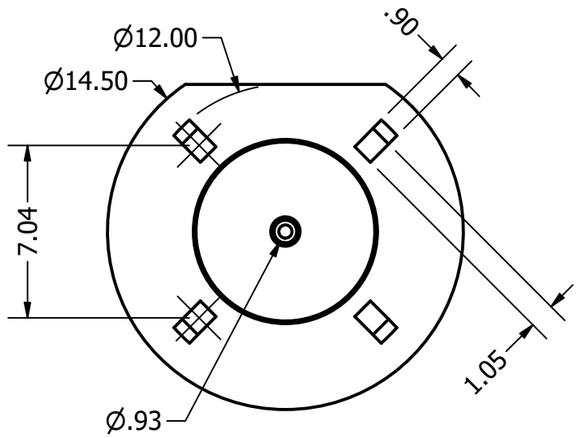
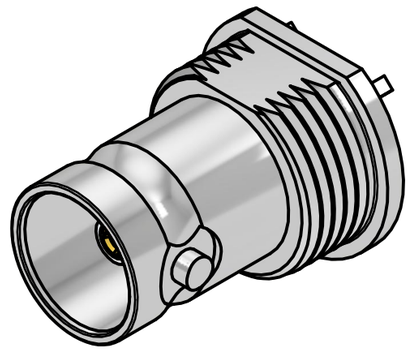
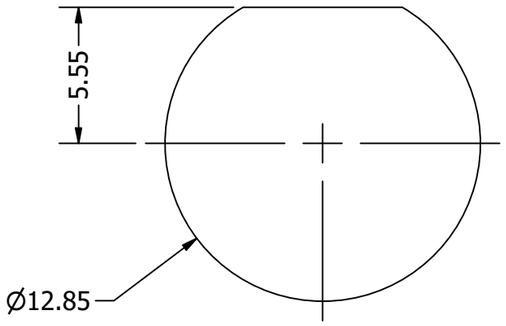




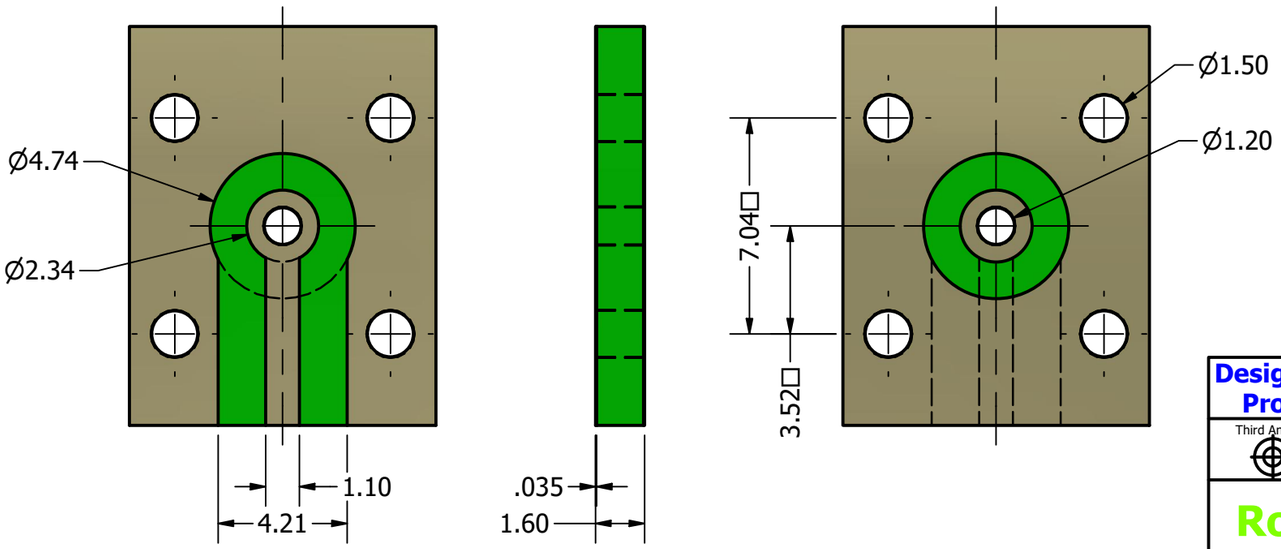




Suggested PCB layout
Intended as a starting
point for design iteration



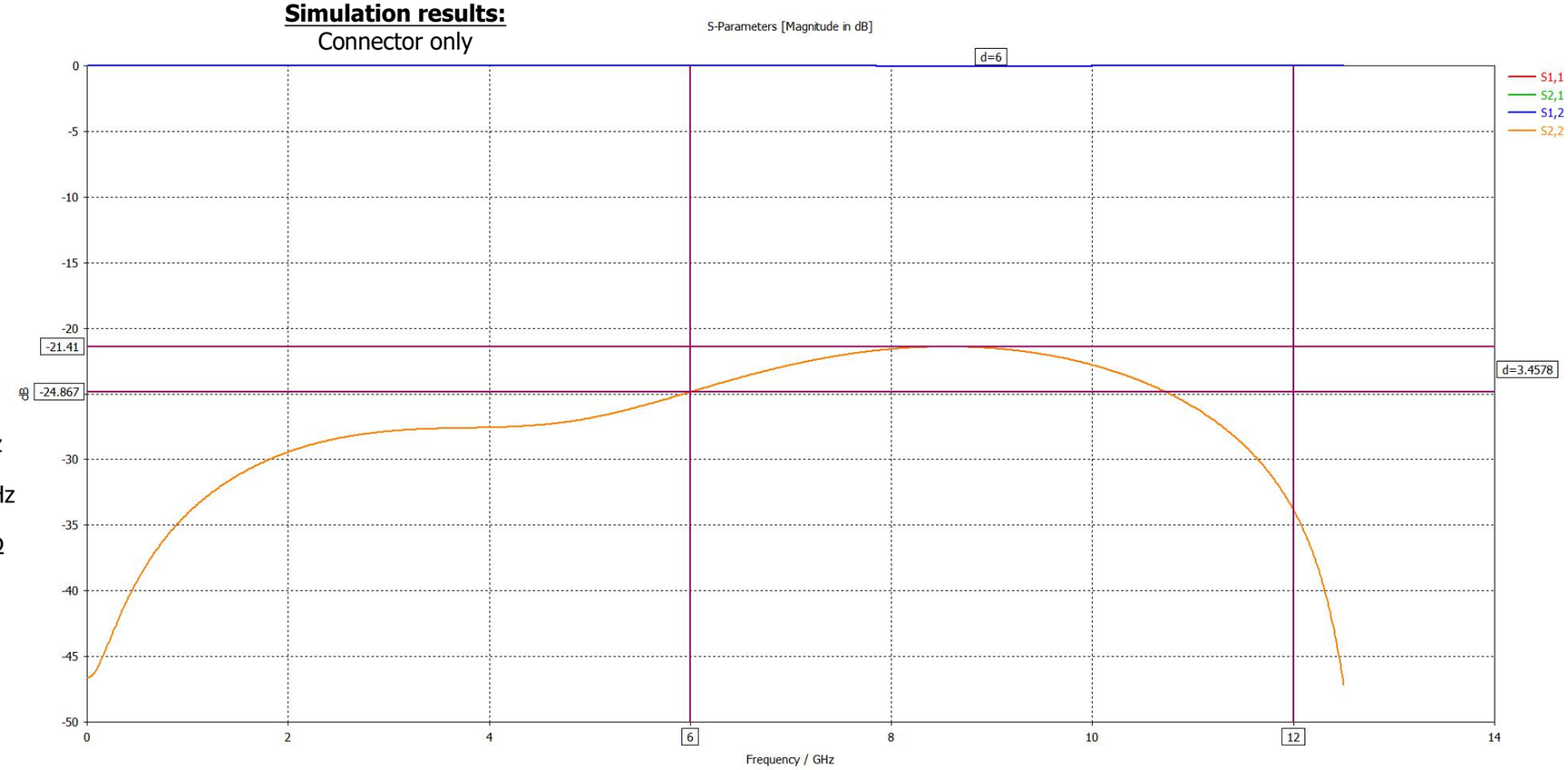
Recommended panel cutout



REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
3.0	Updated P/N	FB / INT	21 Feb 2024	Peter Millard
3.1	Updated Dimension layout	FB / INT	25 Nov 2024	Peter Millard
3.2	Updated PCB and data block	FB/ SUPP	28 Nov 2024	Peter Millard

Design Right Protected	Material:	Finish:	Gen Tol ±0.10	DO NOT SCALE		
Third Angle Projection	Designed by P.Fayers	Checked by	Approved by	©2024	Date 01 Sep 2020	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 Top Entry Bulkhead, 1.9mm Leg, Protective Sleeve			
			Part No: XBS-12-TB19-NNU Cust	Issue 3.2	Sheet 1 / 2	

Simulation results:
Connector only



Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	500 V_{RMS}
Dielectric withstanding voltage	1500 V_{RMS}
Reflection factor (VSWR)	1.12 MAX DC ~ 6.0 GHz
	1.19 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	Brass / Ni plated
Insulators	Polytetrafluoroethylene

Environmental:

Temp ranges	-65 ~ +85°C
Mating cycles	250
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

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 01 Sep 2020	A3
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			Part No: XBS-12-TB19-NNU Cust	Issue 3.2	Sheet 2 / 2	