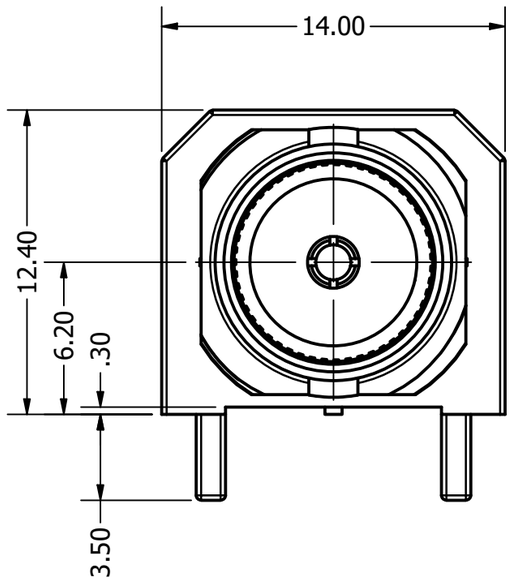
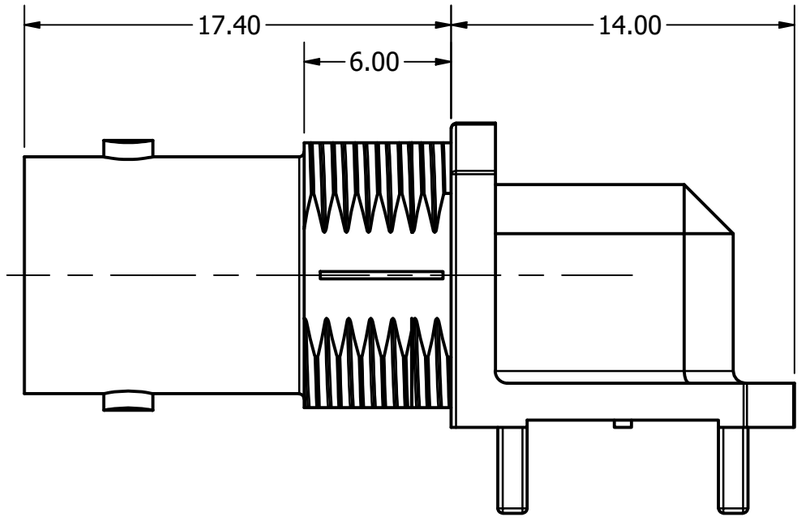
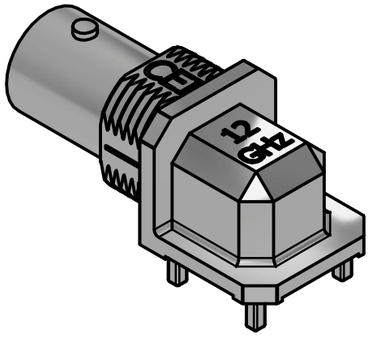
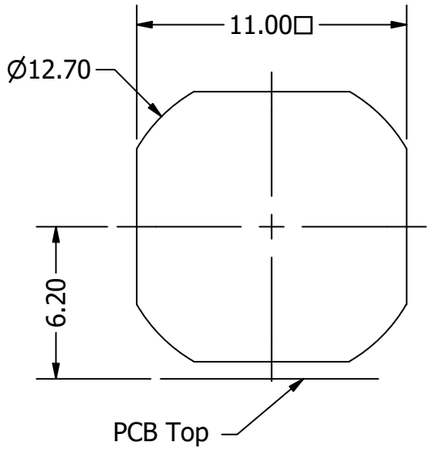
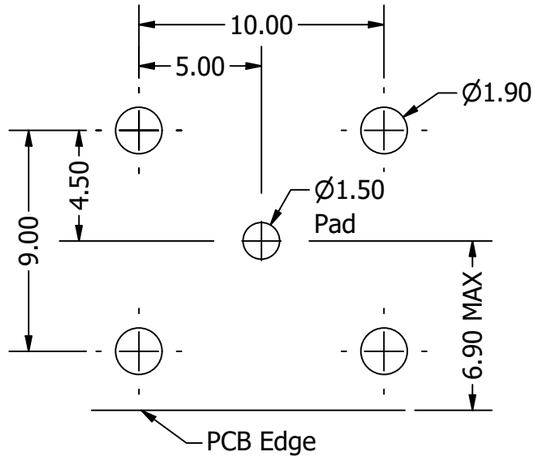




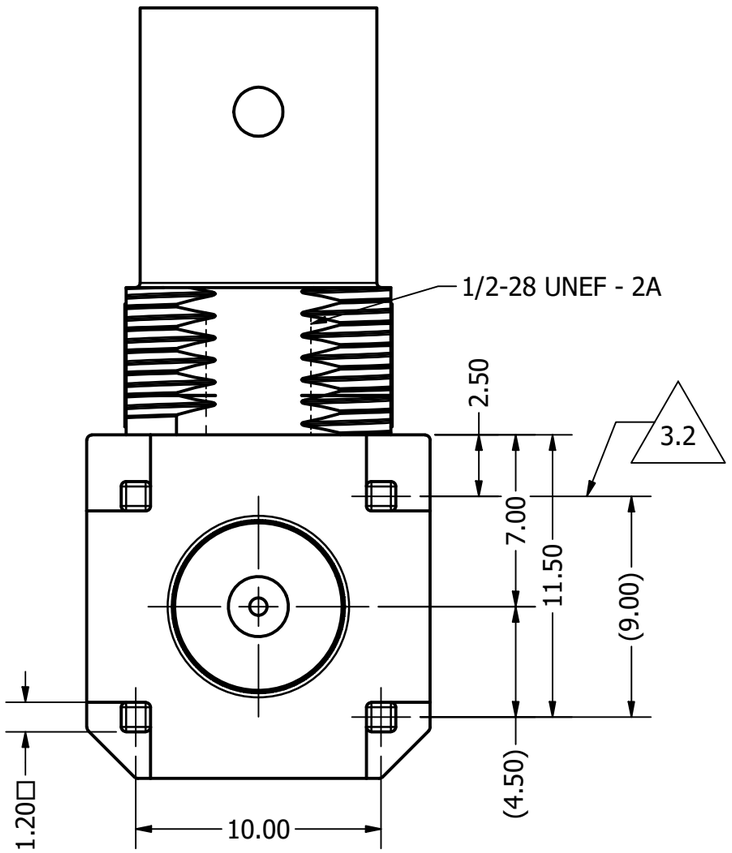




Recommended panel cutout



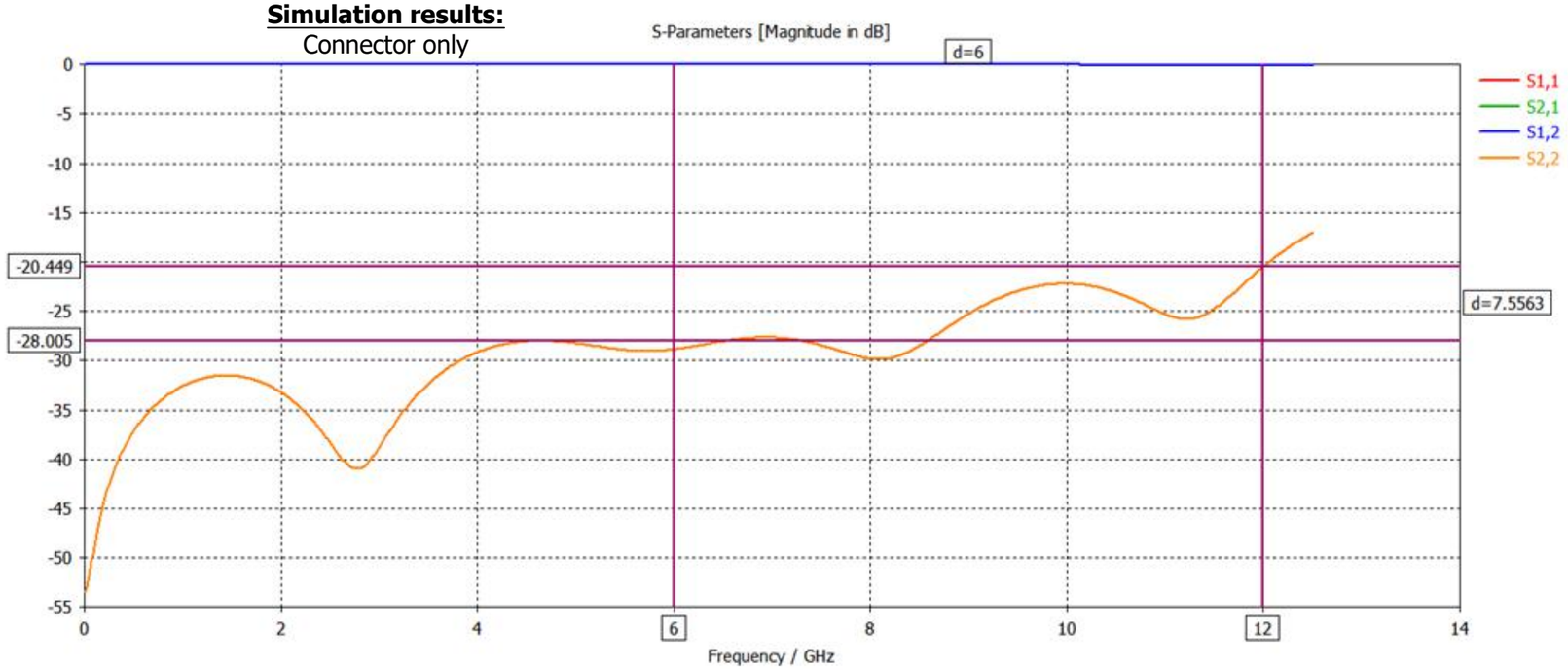
Recommended PCB footprint



REVISION HISTORY			
REV	DESCRIPTION	DATE	DESIGNER
3.0	Updated P/N	25 Jun 2024	Peter Millard
3.1	Updated Bottom Plug CHMF	06 May 2025	Peter Millard
3.2	Updated DIM Layout	08 Jul 2025	Peter Millard
3.3	Updated PCB View	14 Jul 2025	Peter Millard
3.4	Updated internal TOL	21 Jul 2025	Peter Millard
3.5	Updated INS length	23 Jul 2025	Peter Millard

Design Right Protected	Material:	Finish:	Gen Tol ±0.10	DO NOT SCALE	
Third Angle Projection	Designed by Peter Fayers	Checked by	Approved by	©2024	Date 15/05/2015	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 12GHz Right Angle Bulkhead, 3.5mm Leg, Surface Mount Pin		
			Part No: XBS-12-RB35-NNN Cust	Issue 3.5	Sheet 1 / 3

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)	1.11 MAX DC ~ 6.0 GHz
	1.21 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:

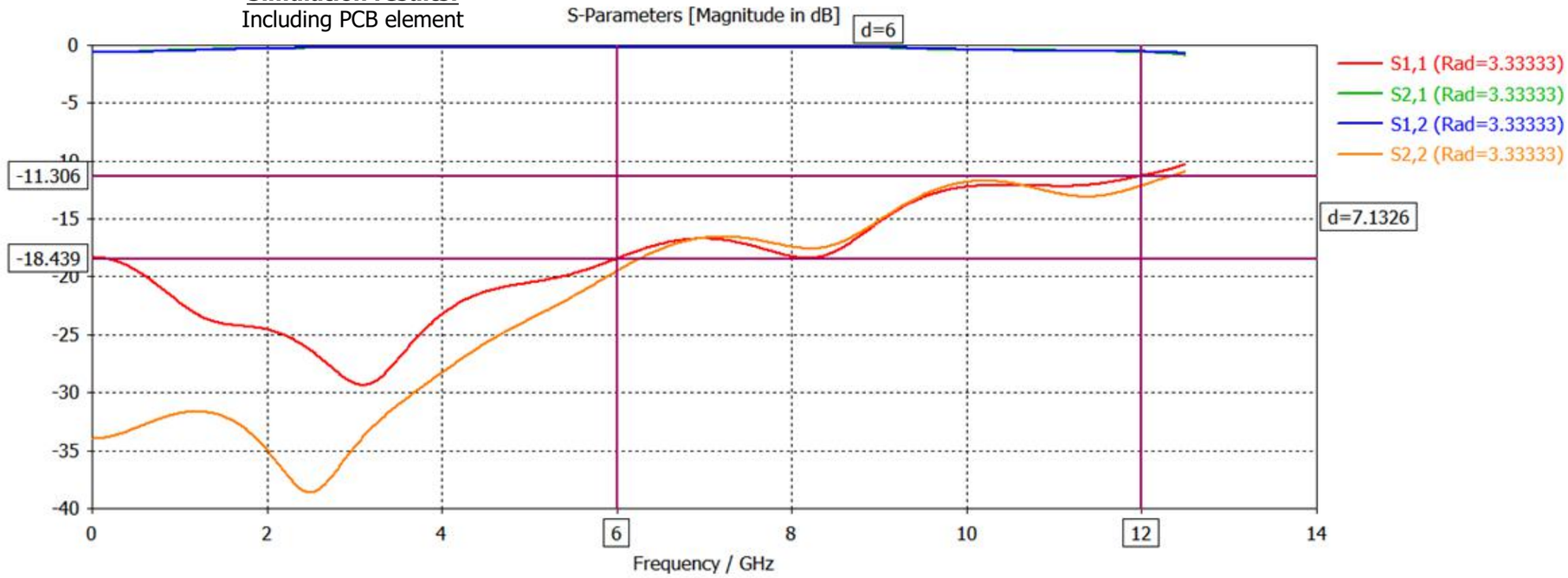
Temp ranges	-65 ~ +85°C
Mating cycles	250
Vibration	N/A
Salt spray	N/A

Processing:

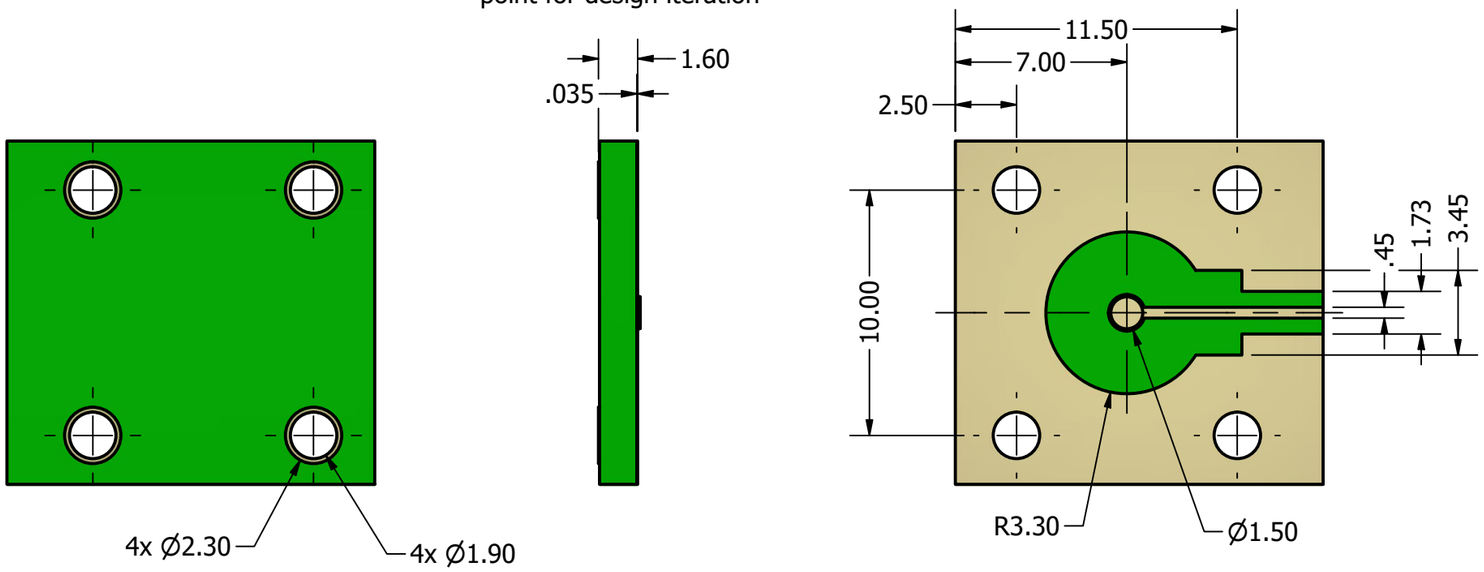
Hand solder	Recommended / 260°C MAX 10 ~ 12 seconds dwell time
Wave solder	Recommended / 260°C MAX 10 ~ 12 seconds dwell time
Reflow solder	Recommended / 245°C MAX

Design Right Protected	Material:	Finish:		Gen Tol ±0.10	DO NOT SCALE	
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			Part No: XBS-12-RB35-NNN Cust	Issue 3.5	Sheet 2 / 3	

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	DO NOT SCALE Unit of Measure: millimeters (mm)	
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			Part No: XBS-12-RB35-NNN Cust	Issue 3.5	Sheet 3 / 3