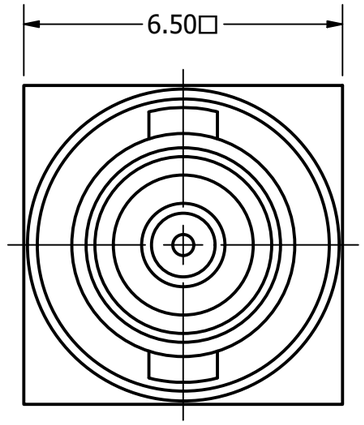
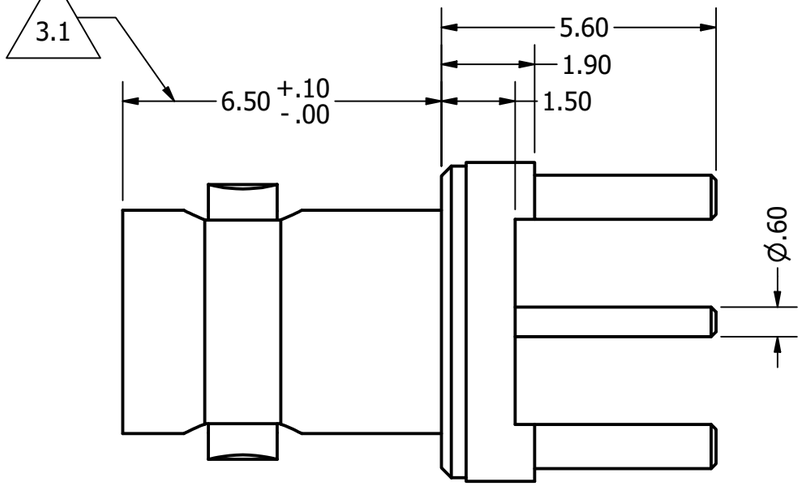
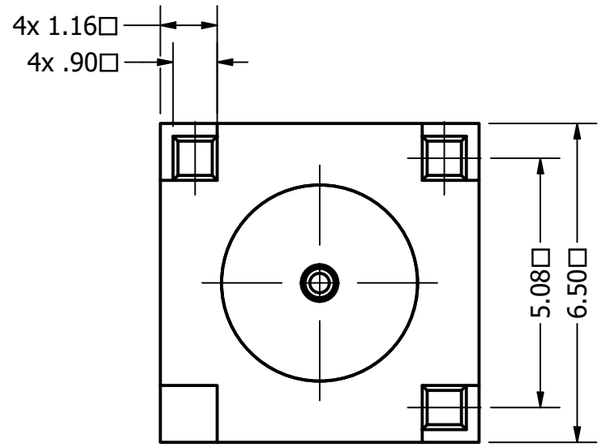
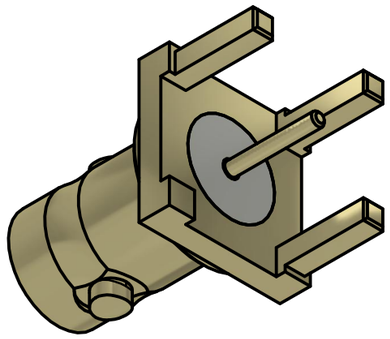
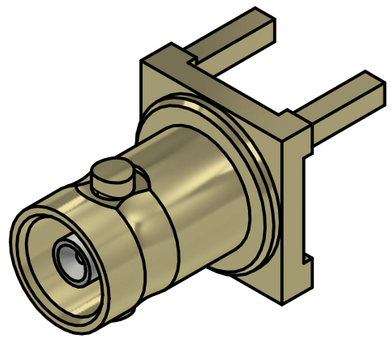
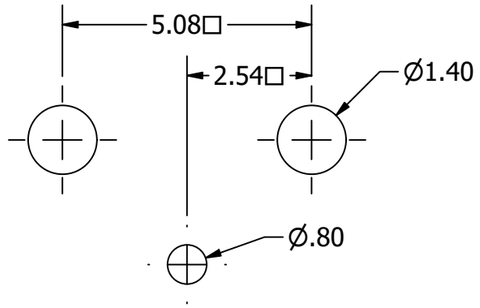










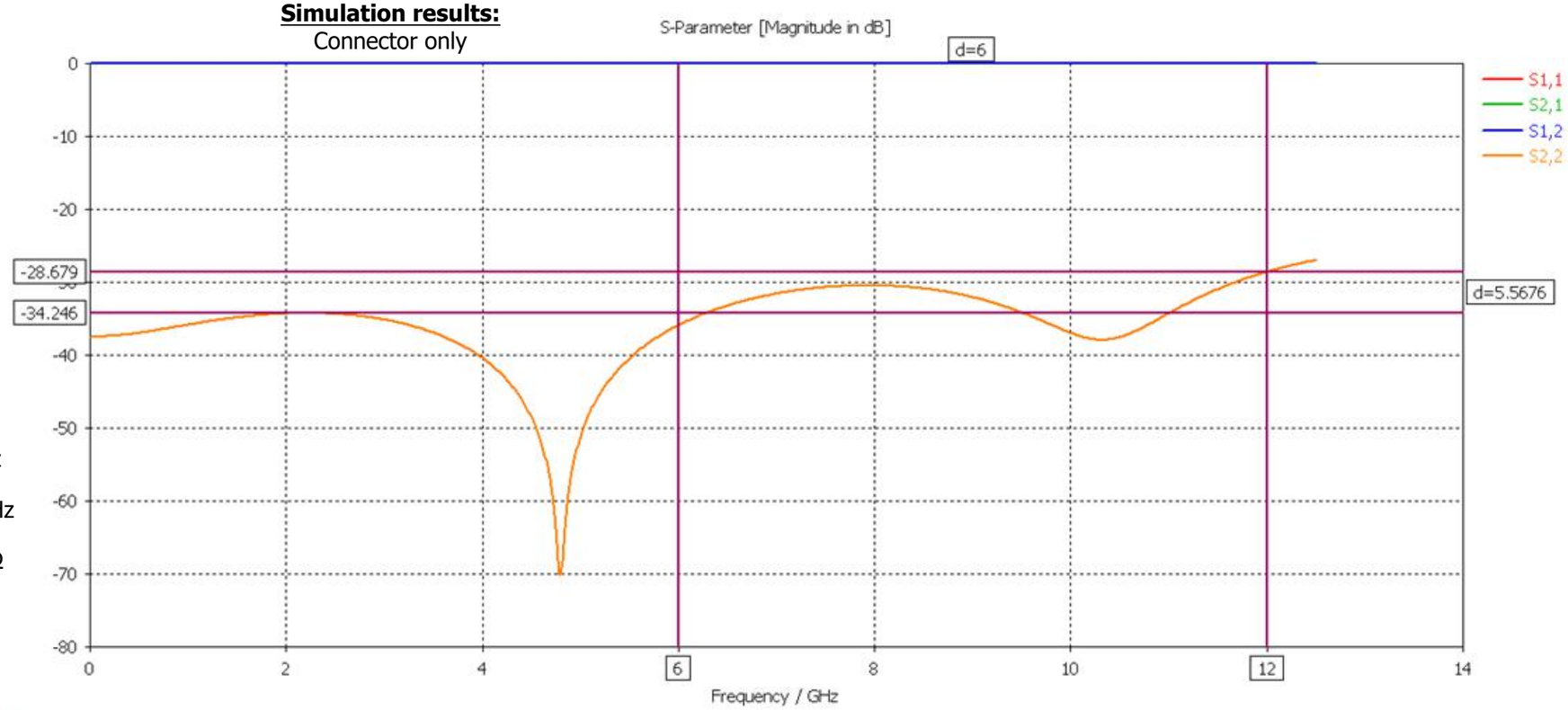


Recommended PCB footprint

REVISION HISTORY			
REV	DESCRIPTION	DATE	DESIGNER
3.0	Updated P/N	31 Jul 2024	Peter Millard
3.1	Updated Tol	17 Oct 2024	Peter Millard
3.2	Clarified Body Dimension	04/09/2025	Martin Smith

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 15 Nov 2012	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 Top Entry, 3 x 3.7mm Leg			
			Part No: XPS-12-TE37-GGI Cust	Issue 3.2	Sheet 1 / 2	

Simulation results:
Connector only



Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	170 V_{RMS}
Dielectric withstanding voltage	>500 V_{RMS}
Reflection factor (VSWR)	1.04 MAX DC ~ 6.0 GHz
	1.08 MAX DC ~ 12.0 GHz
Contact resistance	Centre contact ≤5.0 mΩ
	Outer contact ≤2.5 mΩ
Insulation resistance	≥1000 MΩ

Materials:

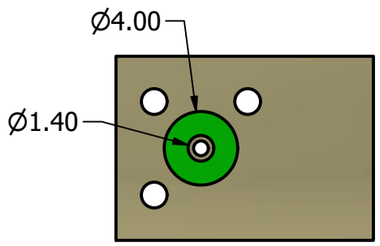
Centre contact	Beryllium Copper / Au plated
Metal parts	Brass / Au plated
Insulators	Polytetrafluoroethylene

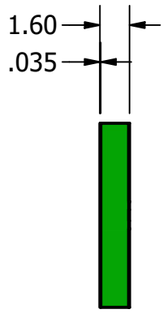
Environmental:

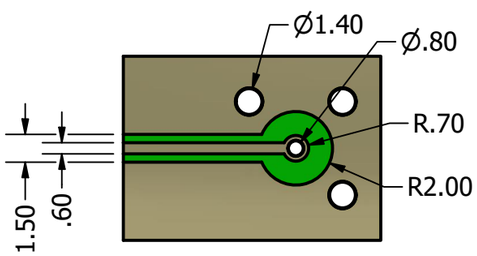
Temp ranges	-65 ~ +85°C
Mating cycles	500
Vibration	N/A
Salt spray	N/A

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







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	
Third Angle Projection	Designed by Peter Fayers	Checked by	Approved by	©2024	Date 15 Nov 2012	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 Top Entry, 3 x 3.7mm Leg			
			Part No: XPS-12-TE37-GGI Cust	Issue 3.2	Sheet 2 / 2	