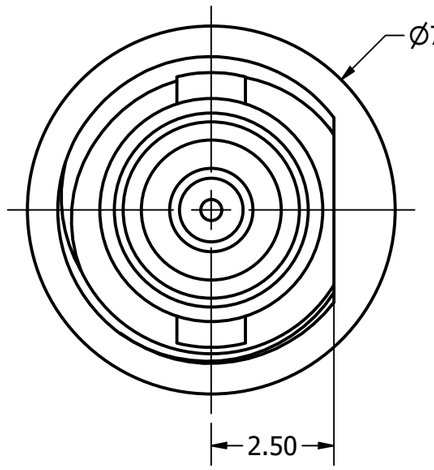
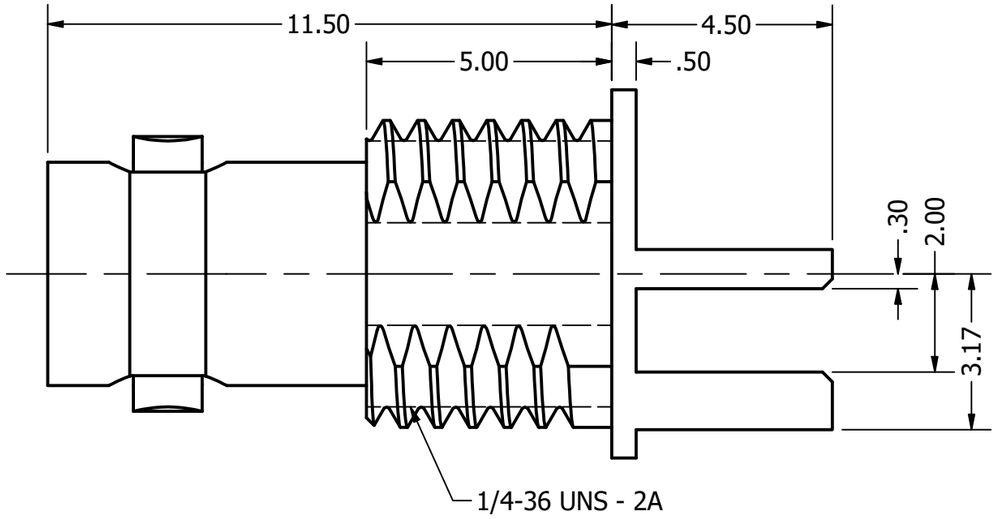
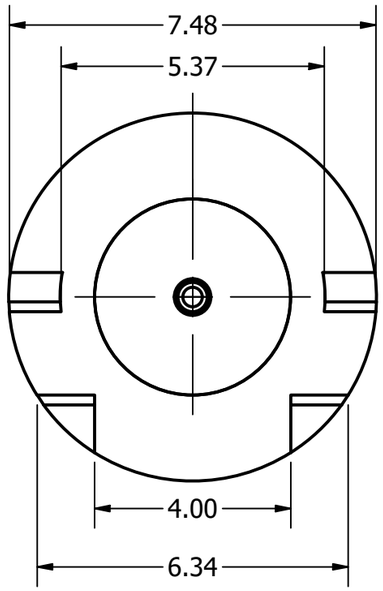
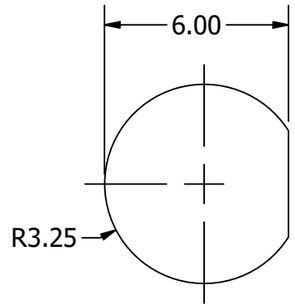
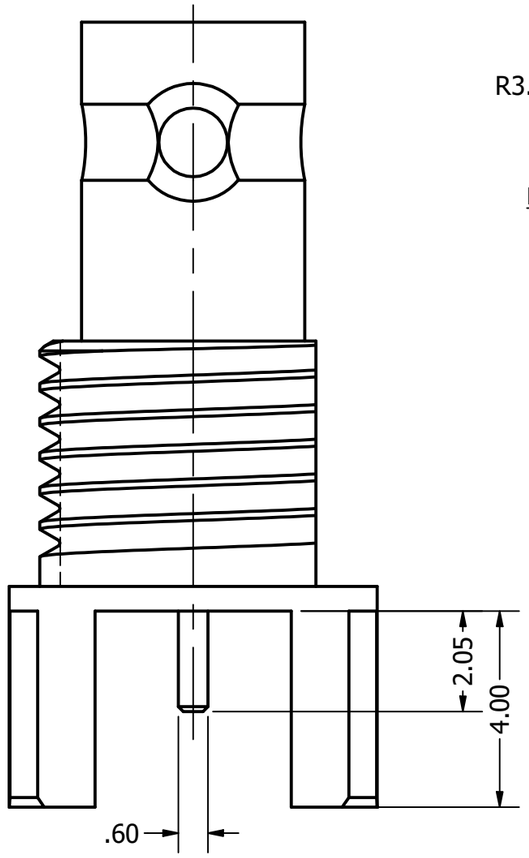


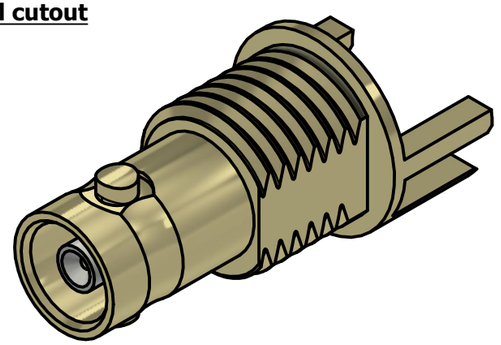






Recommended panel cutout





REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
3.0	Updated P/N	FB / INT	29 Aug 2024	Peter Millard
3.1	Tolerance Update	FB / SUPP	04 Nov 2024	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 20/04/2012	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 Edge Mount Bulkhead for 1.6mm PCB		
			Part No: XPS-12-EB16-GG Cust	Issue 3.1	Sheet 1 / 2

1.6

Electrical:

Impedance	75Ω
Frequency range	DC ~ 25.0 GHz
Working voltage	170 V_{RMS}
Dielectric withstanding voltage	>500 V_{RMS}
Reflection factor (VSWR)	1.01 MAX DC ~ 6.0 GHz
	1.01 MAX DC ~ 12.0 GHz
	1.04 MAX DC ~ 25.0 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

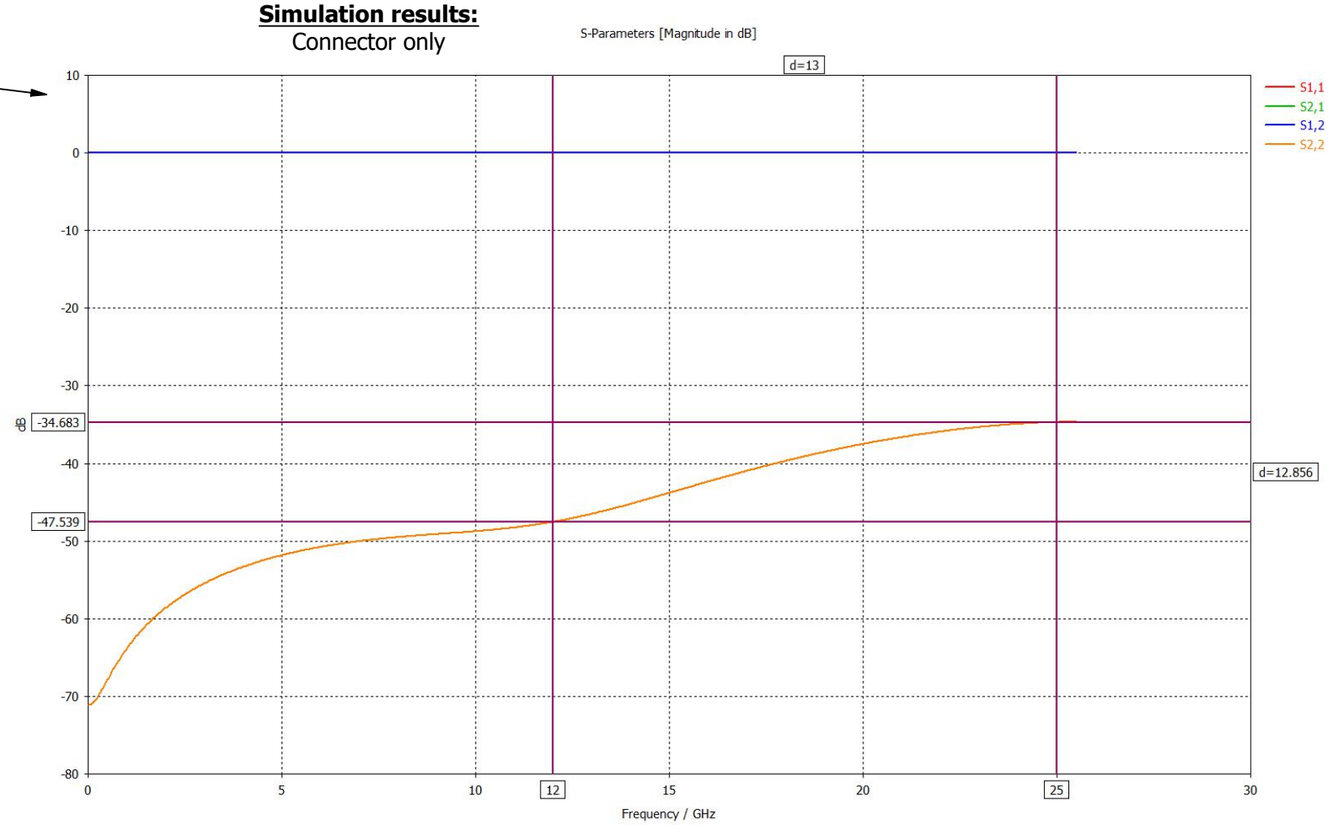
Processing:

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

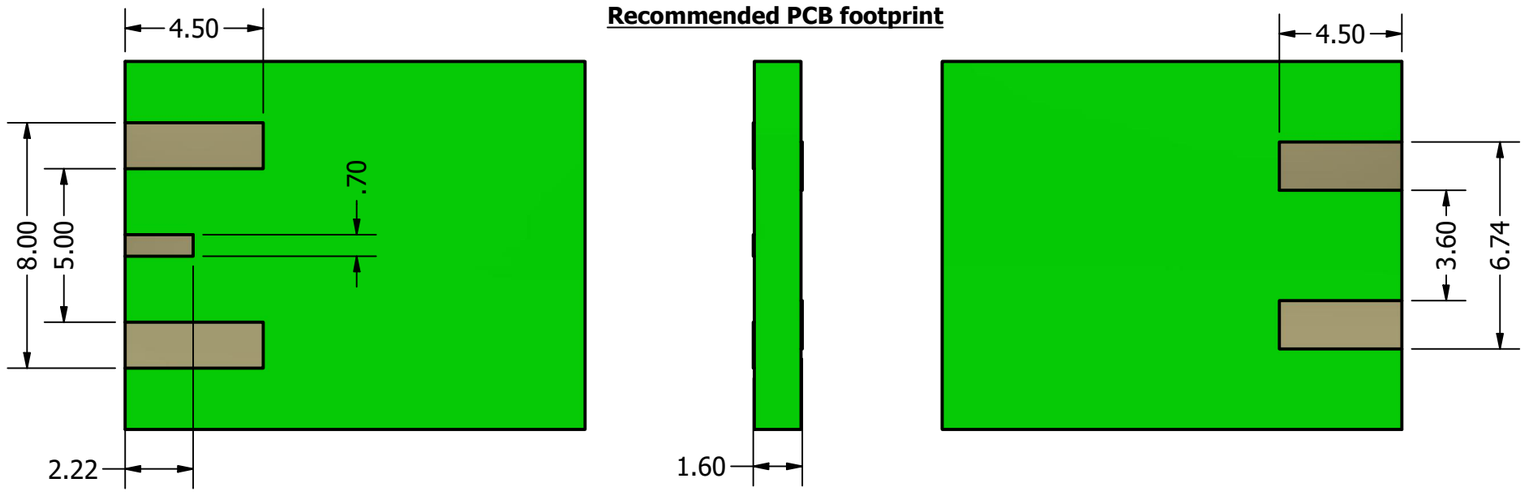
1.6

Simulation results:

Connector only



Recommended PCB footprint



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 20/04/2012	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 Edge Mount Bulkhead for 1.6mm PCB			
			Part No: XPS-12-EB16-GG Cust		Issue 3.1	Sheet 2 / 2