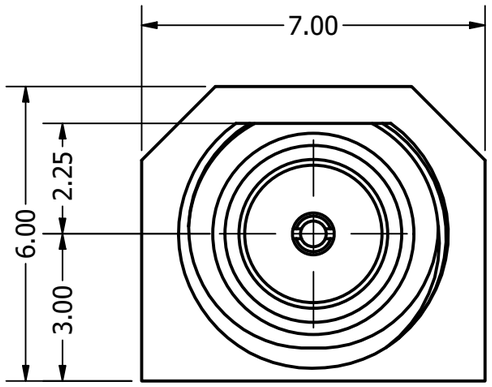
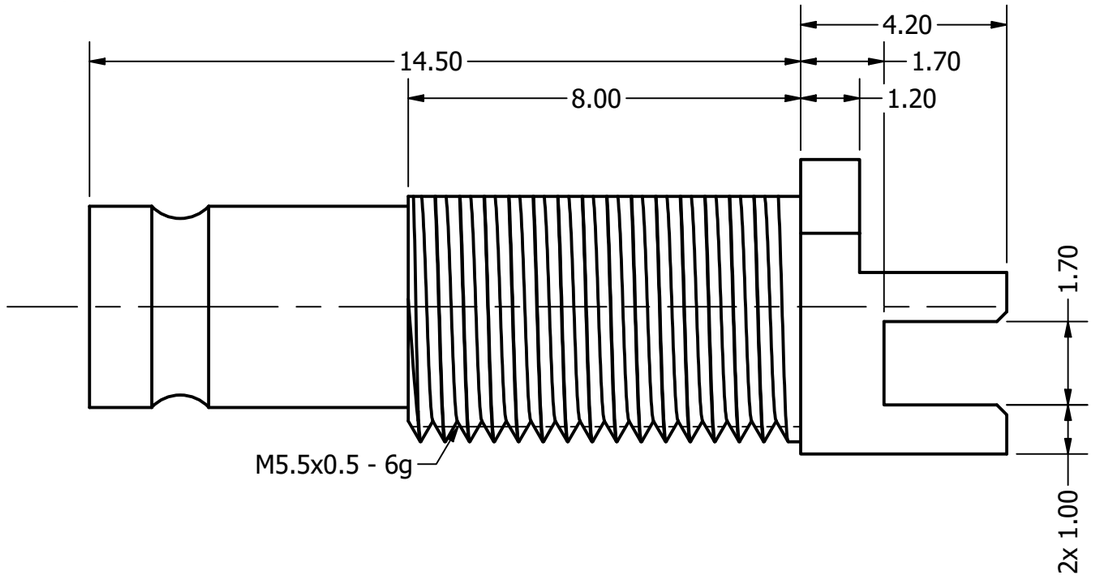
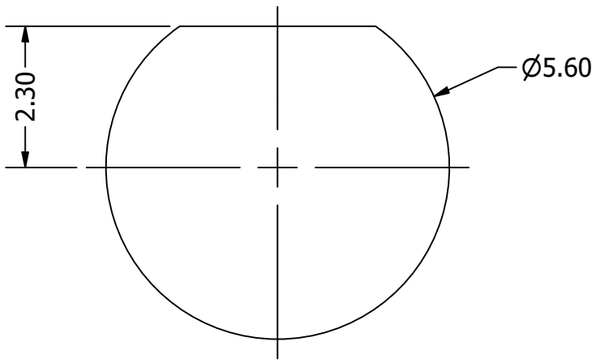
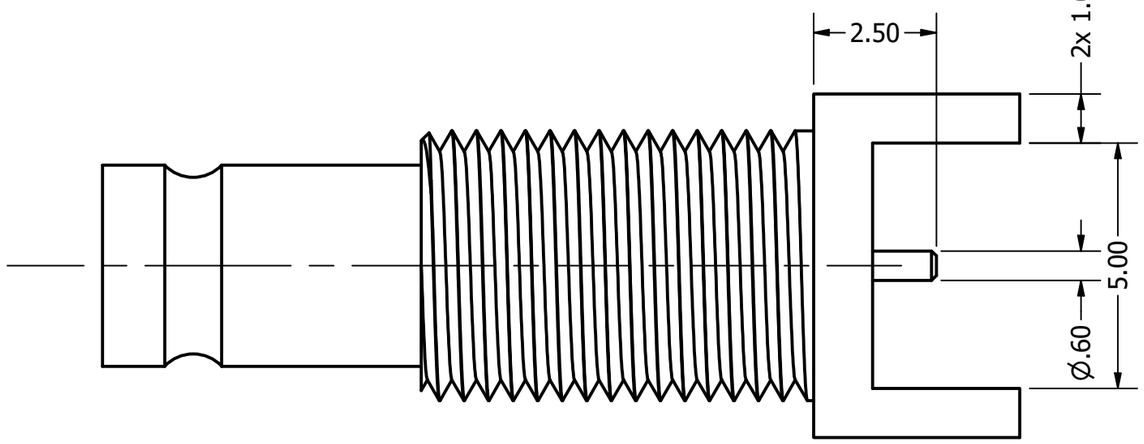
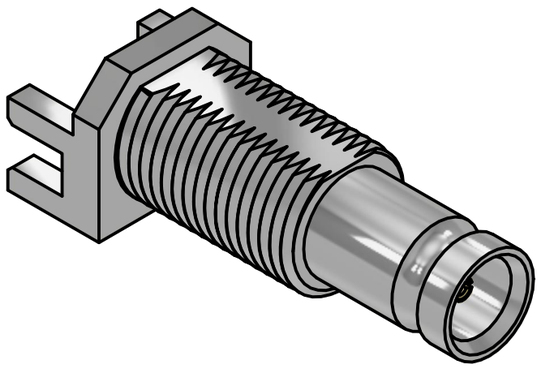






Recommended panel cutout

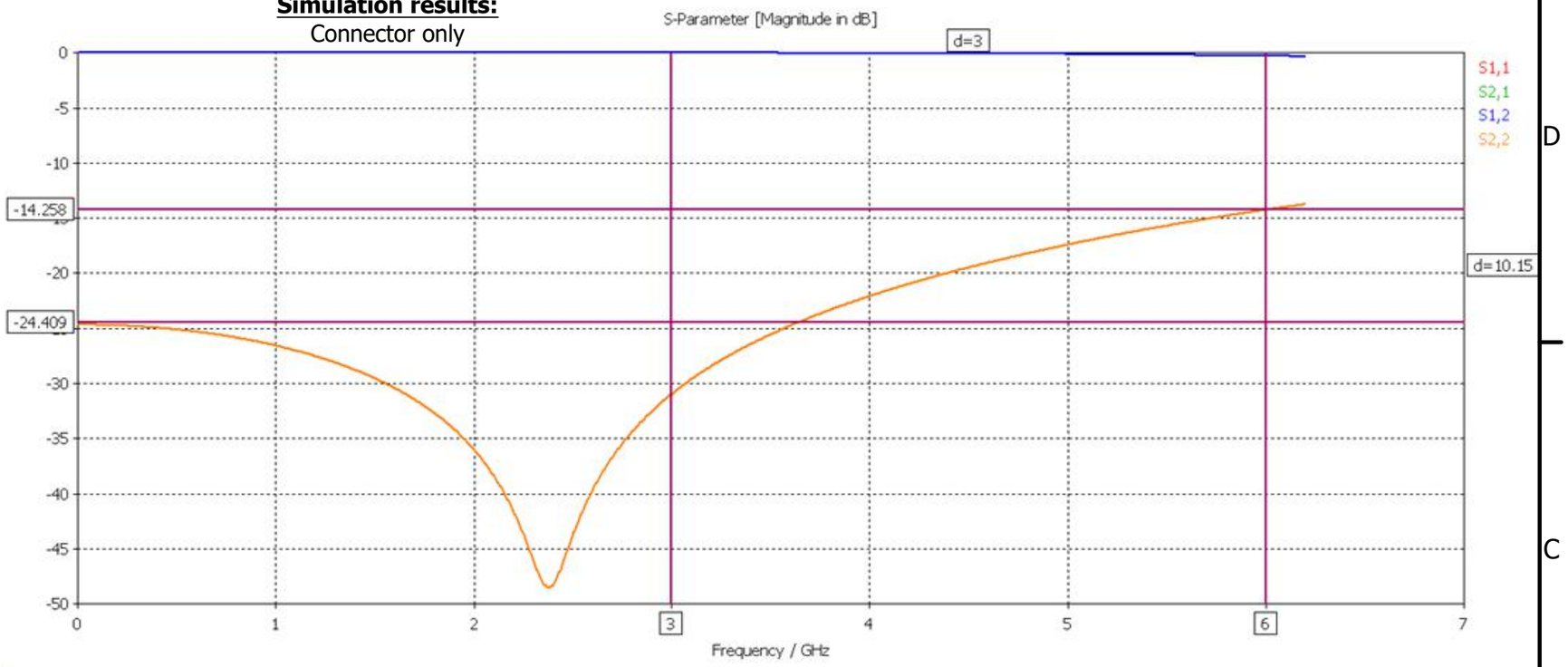




REVISION HISTORY			
REV	DESCRIPTION	DATE	DESIGNER
3.0	Updated P/N	27 Jun 2024	Peter Millard
3.1	Updated specification layout & description	21 Oct 2026	Peter Millard

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 23 Jan 2014	A3
RoHS Compliant	CAMBRIDGE ELECTRONIC INDUSTIRES	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 DIN 1.0/2.3 Socket 6GHz Edge Mount Bulkhead for 1.6mm PCB, Long Body		
			Part No: XGS-06-EB16-NNL Cust	Issue 3.1	Sheet 1 / 2

Simulation results:
Connector only



Electrical:

Impedance	75Ω
Frequency range	DC ~ 6.0 GHz
Working voltage	250 V_{RMS}
Dielectric withstanding voltage	>750 V_{RMS}
Reflection factor (VSWR)	1.12 MAX DC ~ 3.0 GHz
	1.48 MAX DC ~ 6.0 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 plated
Insulators	Polytetrafluoroethylene

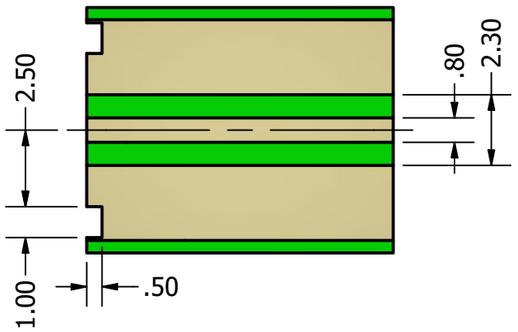
Environmental:

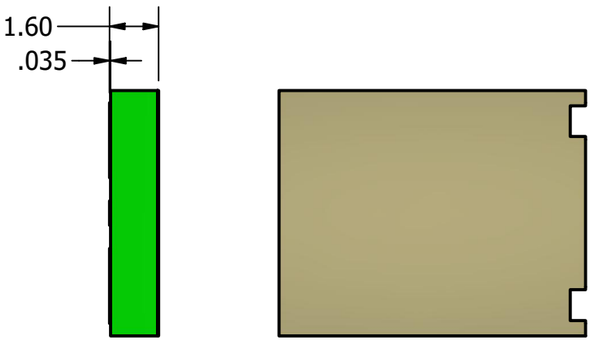
Temp ranges	-65 ~ +85°C
Mating cycles	500
Vibration	MIL-STD-202 method 204 test condition B
Salt spray	MIL-STD-202 method 101 test condition B

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	DO NOT SCALE	
Third Angle Projection	Designed by P. Fayers	Checked by	Approved by	©2024	Date 23 Jan 2014	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 DIN 1.0/2.3 Socket 6GHz Edge Mount Bulkhead for 1.6mm PCB, Long Body			
			Part No: XGS-06-EB16-NNL Cust	Issue 3.1	Sheet 2 / 2	