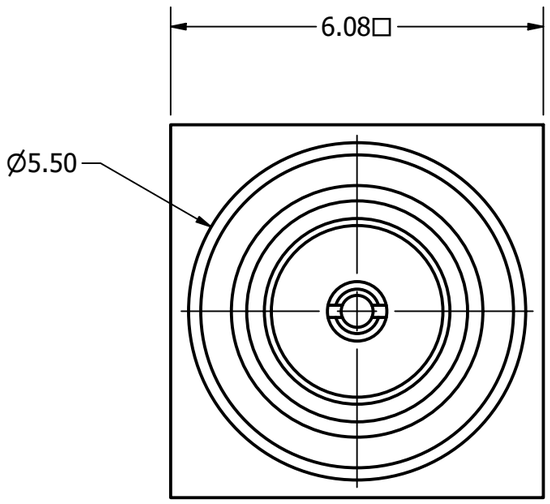
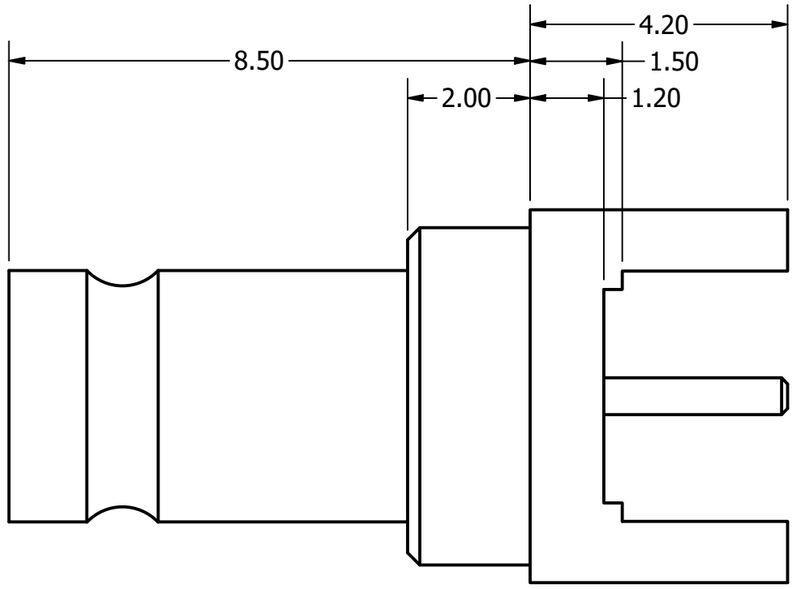
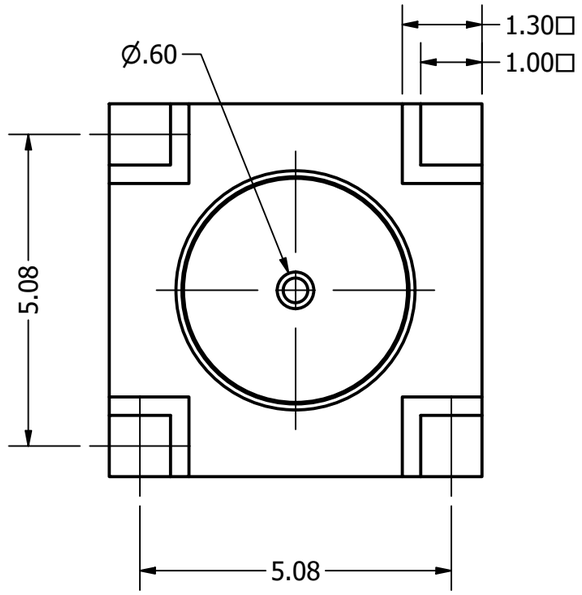
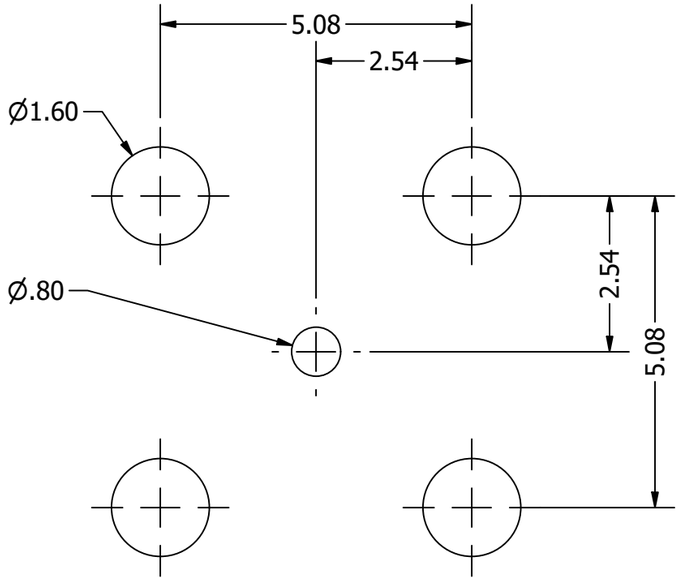
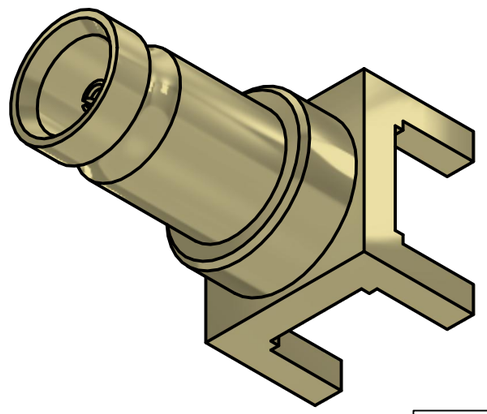








Recommended PCB footprint



REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
1.0	Origin	-	06 Mar 2024	Peter Millard
1.1	Body plating changed	FB / INT	27 Jun 2024	Peter Millard
1.2	Updated specification layout & description	FB / INT	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 Peter Millard	Checked by	Approved by	©2024	Date 06 Mar 2024	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 Top Entry, 2.7mm Leg		
			Part No: XGS-06-TE27-GG CUST	Issue 1.2	Sheet 1 / 2

Electrical:

Impedance	75Ω
Frequency range	DC ~ 6.0 GHz
Working voltage	250 V_{RMS}
Dielectric withstanding voltage	>750 V_{RMS}
Reflection factor (VSWR)	1.01 MAX DC ~ 3.0 GHz
	1.02 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

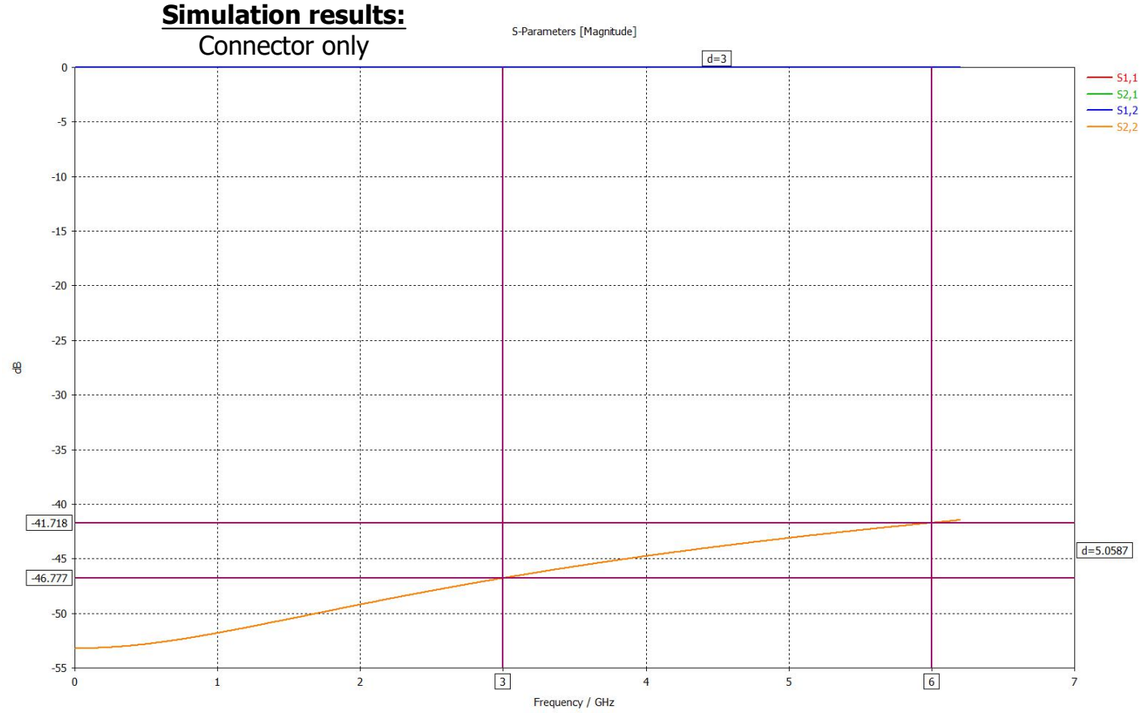
Environmental:

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

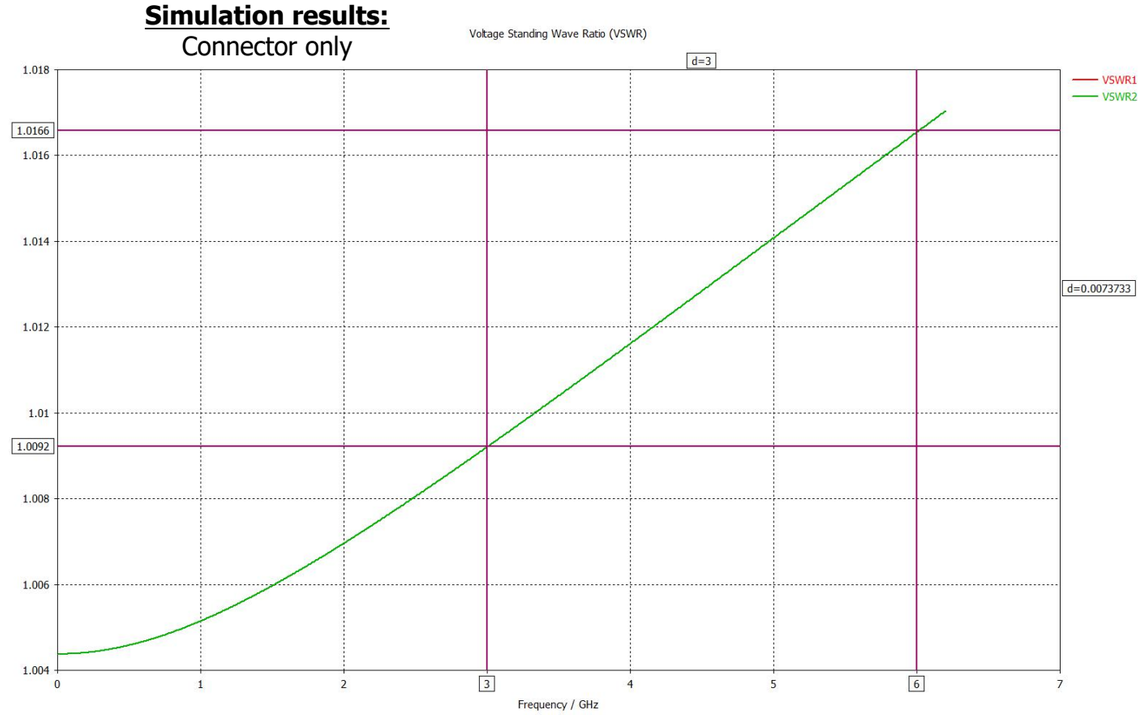
Processing:

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

Simulation results:
Connector only



Simulation results:
Connector only



Design Right Protected	Material:	Finish:		Gen Tol ±0.10	DO NOT SCALE	
Third Angle Projection	Designed by Peter Millard	Checked by	Approved by	©2024	Date 06 Mar 2024	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 Top Entry, 2.7mm Leg			
			Part No: XGS-06-TE27-GG CUST	Issue 1.2	Sheet 2 / 2	