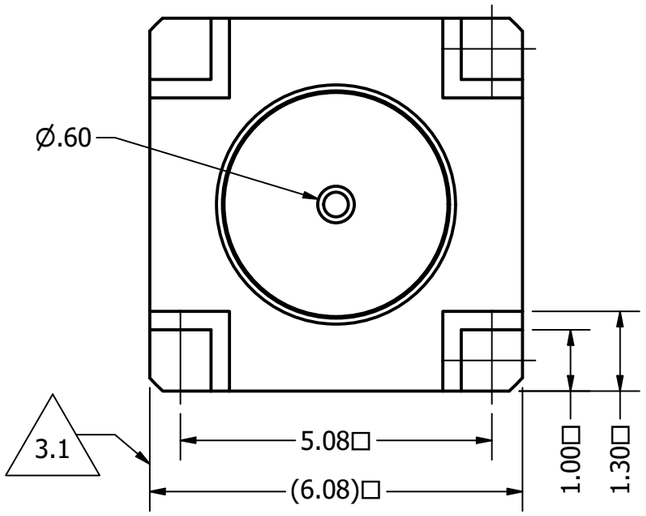
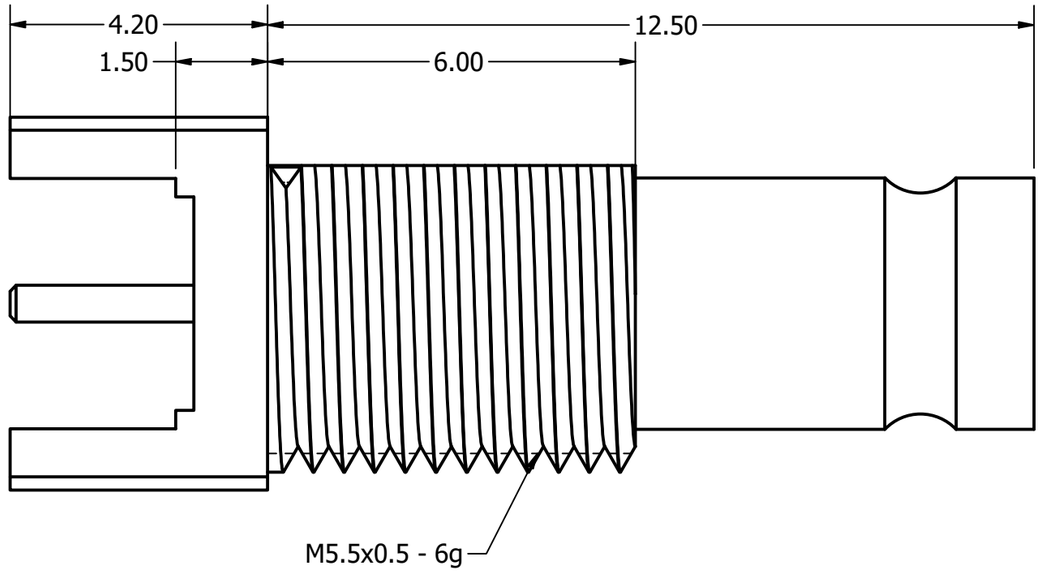
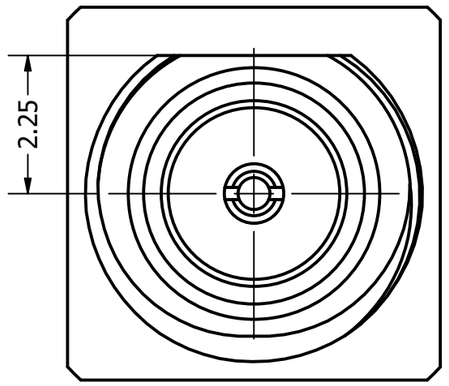
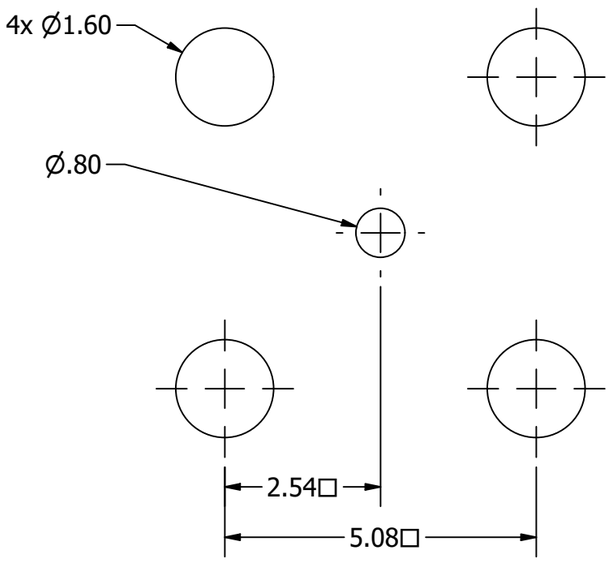


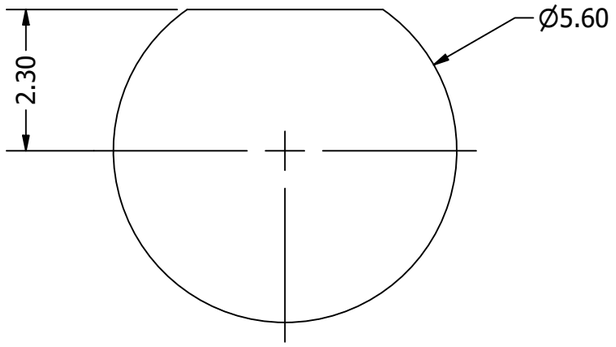


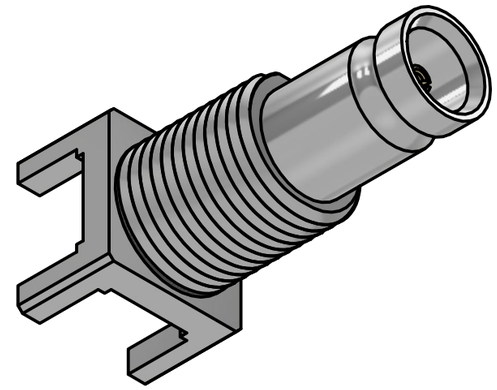


Recommended PCB footprint



Recommended panel cutout

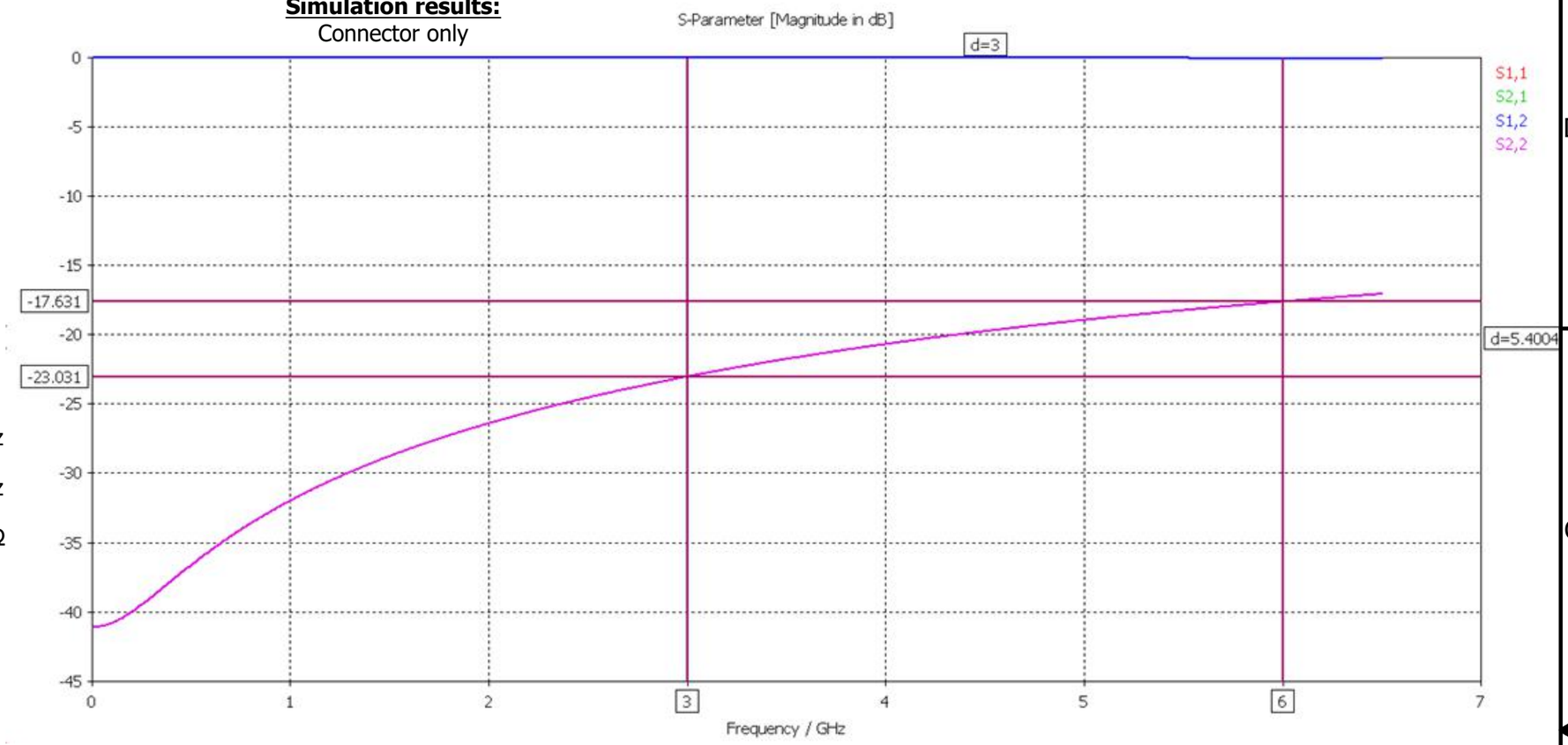




REVISION HISTORY			
REV	DESCRIPTION	DATE	DESIGNER
3.0	Updated P/N	09 Jul 2024	Peter Millard
3.1	Updated body dimensions	08 Sep 2025	Peter Millard
3.2	Updated specification layout & description	21 Oct 2026	Peter Millard

Design Right Protected	Material:	Finish:	Gen Tol ±0.10 Angular ±2°	DO NOT SCALE		
				Unit of Measure: millimeters (mm)		
Third Angle Projection	Designed by P. Fayers	Checked by	Approved by	©2024	Date 12 Jul 2012	A3
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			Part No: XGS-06-TB27-NN Cust		Issue 3.2	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)	1.15 MAX DC ~ 3.0 GHz
	1.29 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 / Ni 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

Design Right Protected	Material:	Finish:		Gen Tol ±0.10 Angular ±2°	DO NOT SCALE	
					Unit of Measure: millimeters (mm)	
Third Angle Projection	Designed by P. Fayers	Checked by	Approved by	©2024	Date 12 Jul 2012	A3
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			Part No: XGS-06-TB27-NN Cust	Issue 3.2	Sheet 2 / 2	