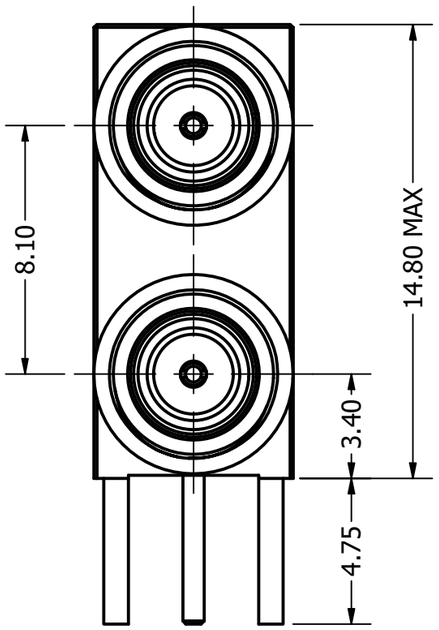
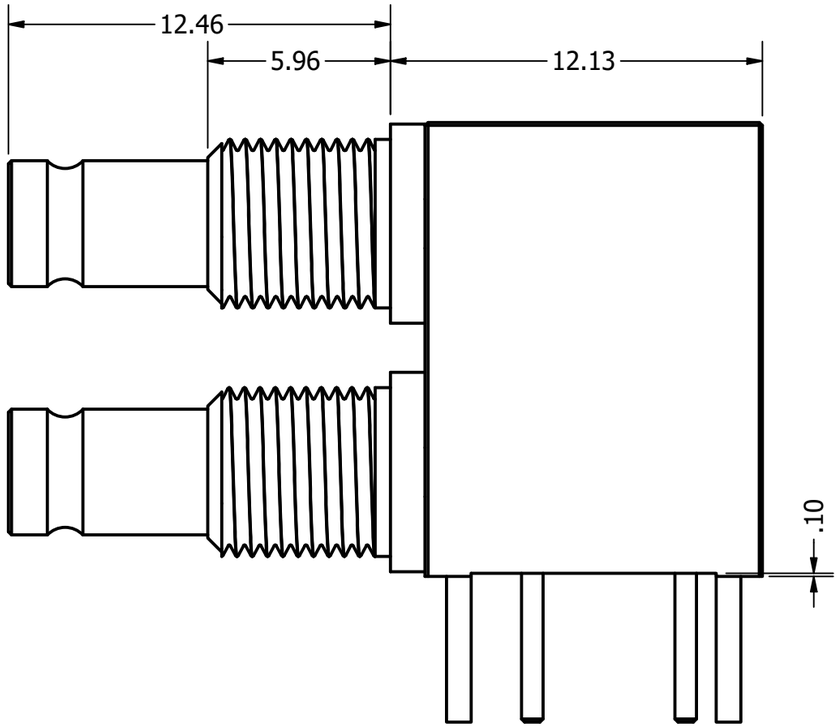
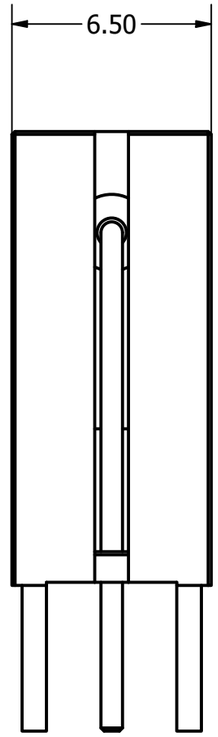
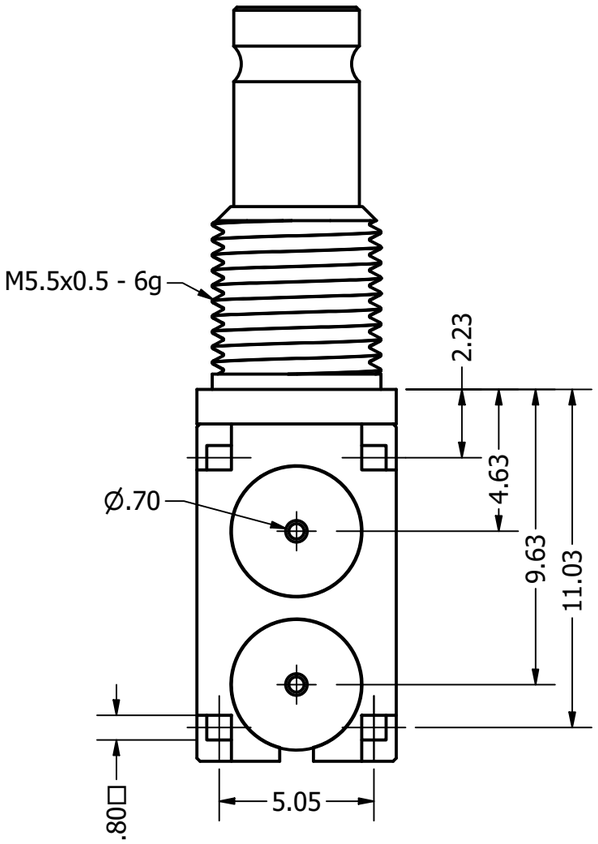
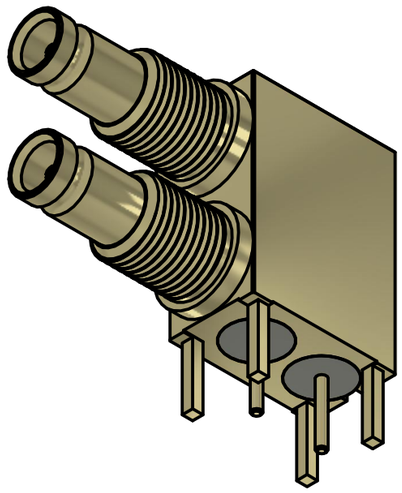










REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
3.0	Updated P/N	FB / INT	26 Feb 2024	Peter Millard
3.1	Updated Plating	FB / INT	09 Jul 2024	Peter Millard
3.2	Common Insulators with Micro Dual	FB / SUPP	15 Oct 2024	Peter Millard
3.3	Bottom Insulators Now Common	FB / SUPP	09 Dec 2024	Peter Millard
3.4	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 P.Fayers

Checked by

Approved by

©2024

Date 10 Jan 2019

A3

RoHS Compliant

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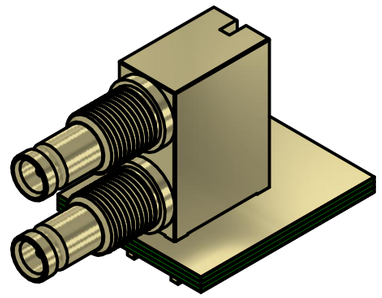
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Description:
75Ω DIN 1.0/2.3 Socket 6GHz Right Angle Bulkhead, 4.75mm Leg, Dual Port

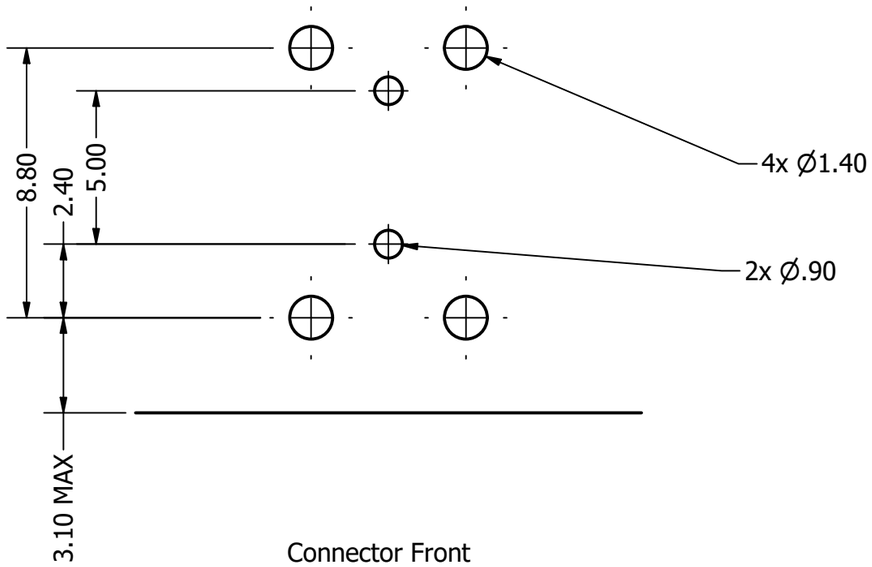
Part No: XGS-06-RB47-GGD Cust

Issue 3.4

Sheet 1 / 3

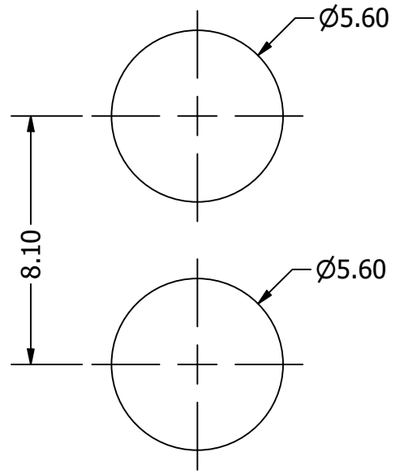


Recommended PCB footprint



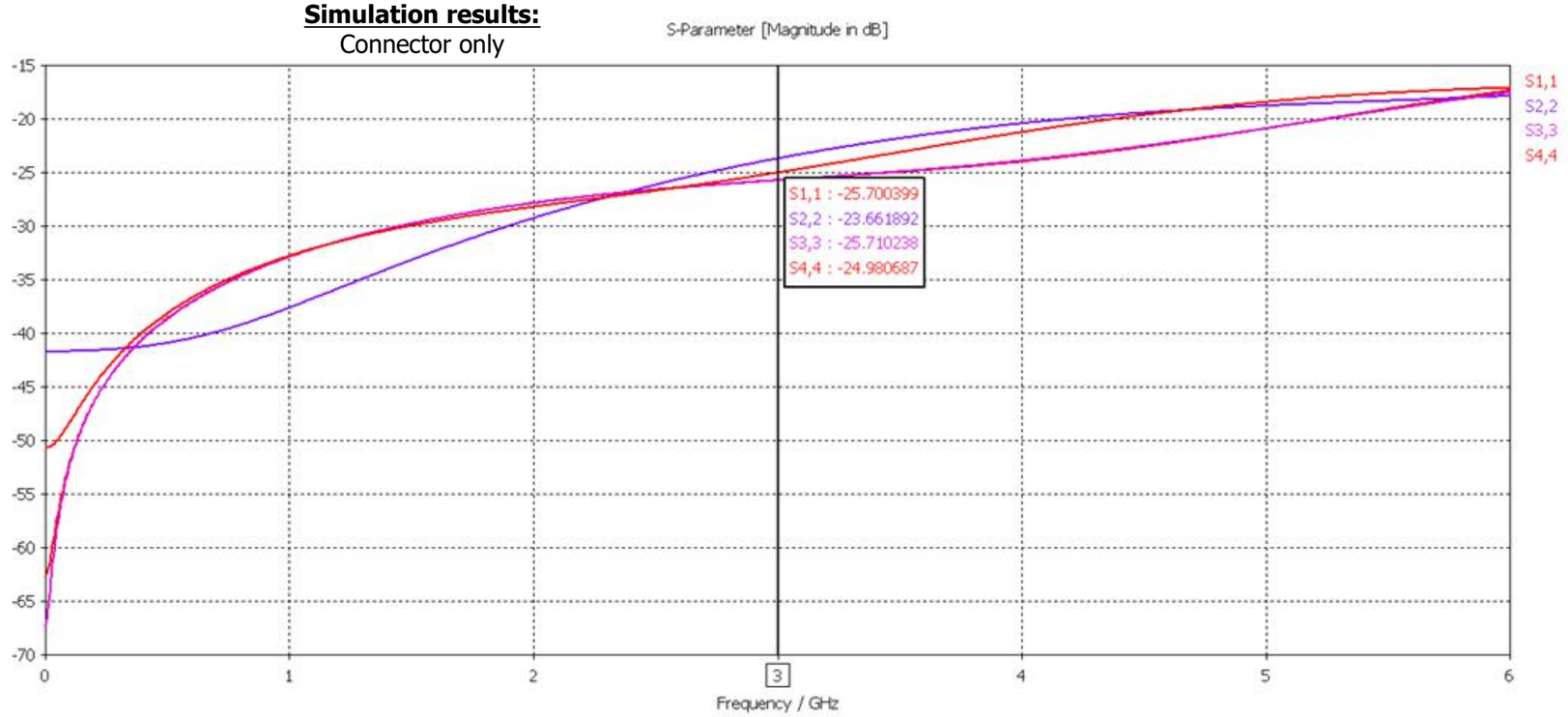
Connector Front

Recommended panel cutout



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 10 Jan 2019	A3
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			Part No: XGS-06-RB47-GGD Cust	Issue 3.4	Sheet 2 / 3

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)	1.14 MAX DC ~ 3.0 GHz
	1.31 MAX DC ~ 6.0 GHz
Contact resistance	Centre contact ≤4.0 mΩ
	Outer contact ≤2.5 mΩ
Insulation resistance	≥1000 MΩ

Materials:

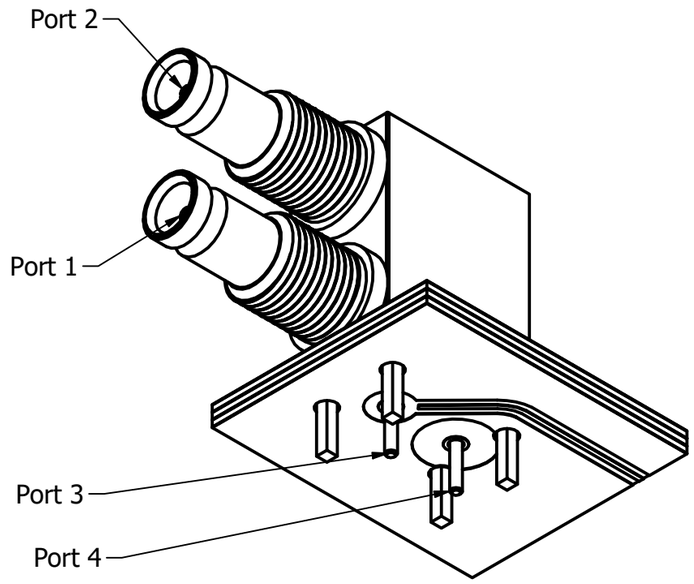
Centre contact	Beryllium Copper / Au plated
Metal parts	Brass / Au plated
Insulators	Polytetrafluoroethylene

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



Port designations

Port 1 = PCB Lower Coax Connector
Port 2 = PCB Upper Coax Connector
Port 3 = Coax Lower
Port 4 = Coax Upper

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 10 Jan 2019	A3
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			Part No: XGS-06-RB47-GGD Cust	Issue 3.4	Sheet 3 / 3	