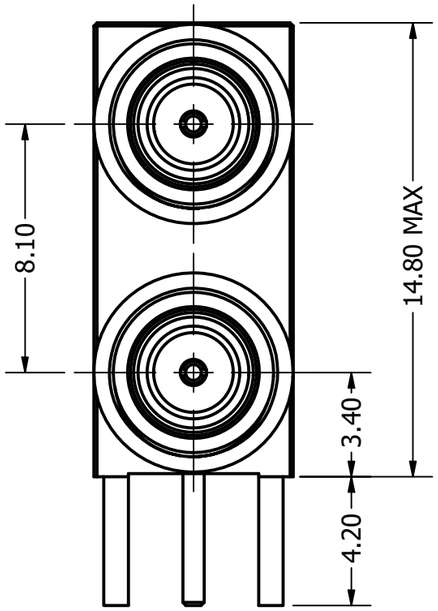
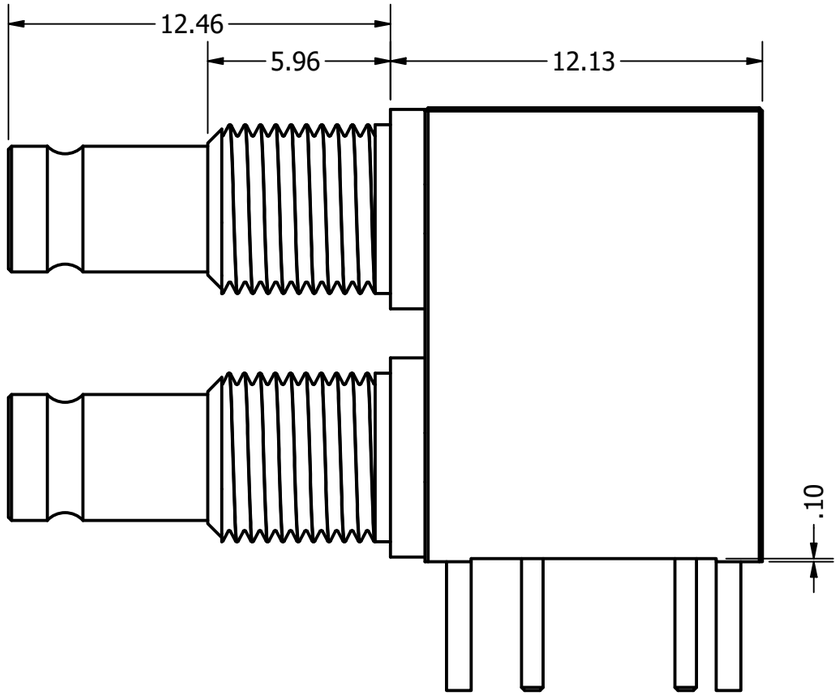
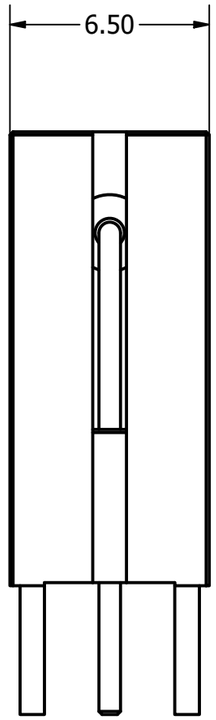
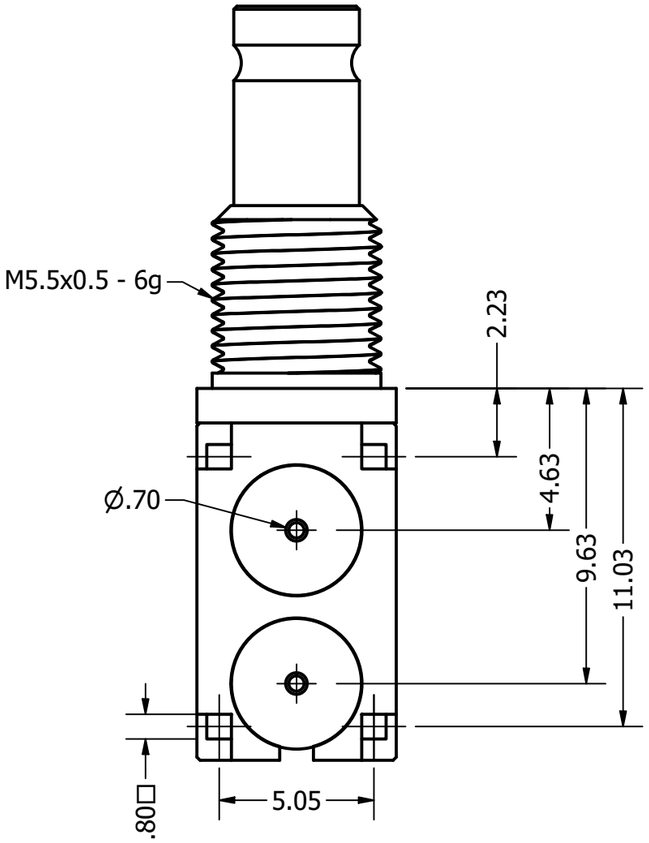
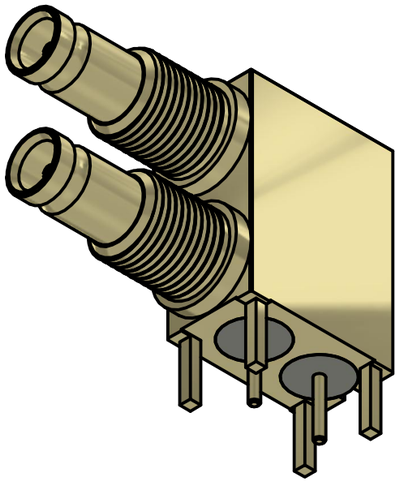






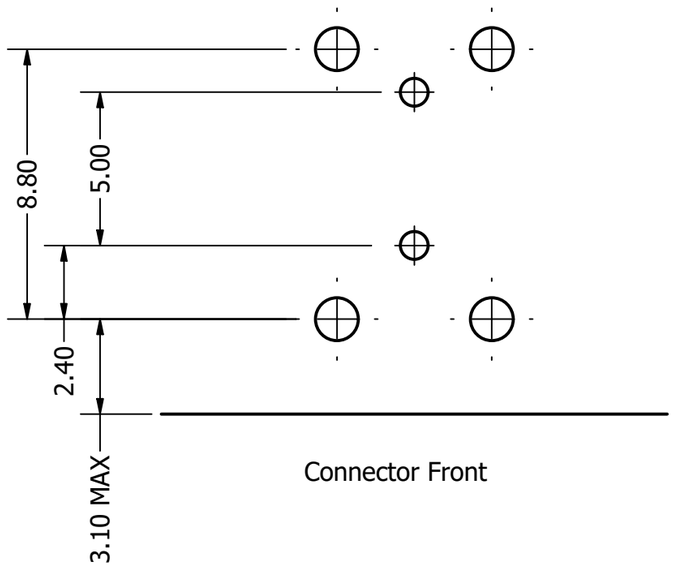


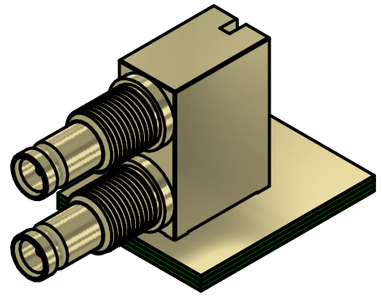


REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
3.0	Updated P/N	FB / INT	26 Feb 2024	Peter Millard
3.1	Updated Interface	FB / INT	09 Jul 2024	Peter Millard
3.2	Updated Insulators Tolerance	FB / SUPP	03 Dec 2024	Peter Millard
3.3	Updated Insulators Tolerance	FB / SUPP	09 Dec 2024	Peter Millard
3.4	Updated specification layout & description	FB / INT	21 Oct 2026	Peter Millard

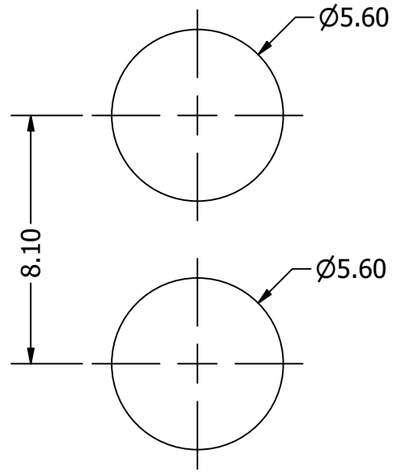
Design Right Protected	Material:	Finish:		Gen Tol ±0.10	DO NOT SCALE Unit of Measure: millimeters (mm)	
Third Angle Projection	Designed by P.Fayers	Checked by	Approved by	©2024	Date 03 Jun 2016	A3
RoHS Compliant	CAMBRIDGE ELECTRONIC INDUSTRIES	This document and all the data contained herein is and shall 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 Right Angle Bulkhead, 4.2mm Leg, Dual Port			
			Part No: XGS-06-RB42-GGD Cust		Issue 3.4	Sheet 1 / 3

Recommended PCB footprint



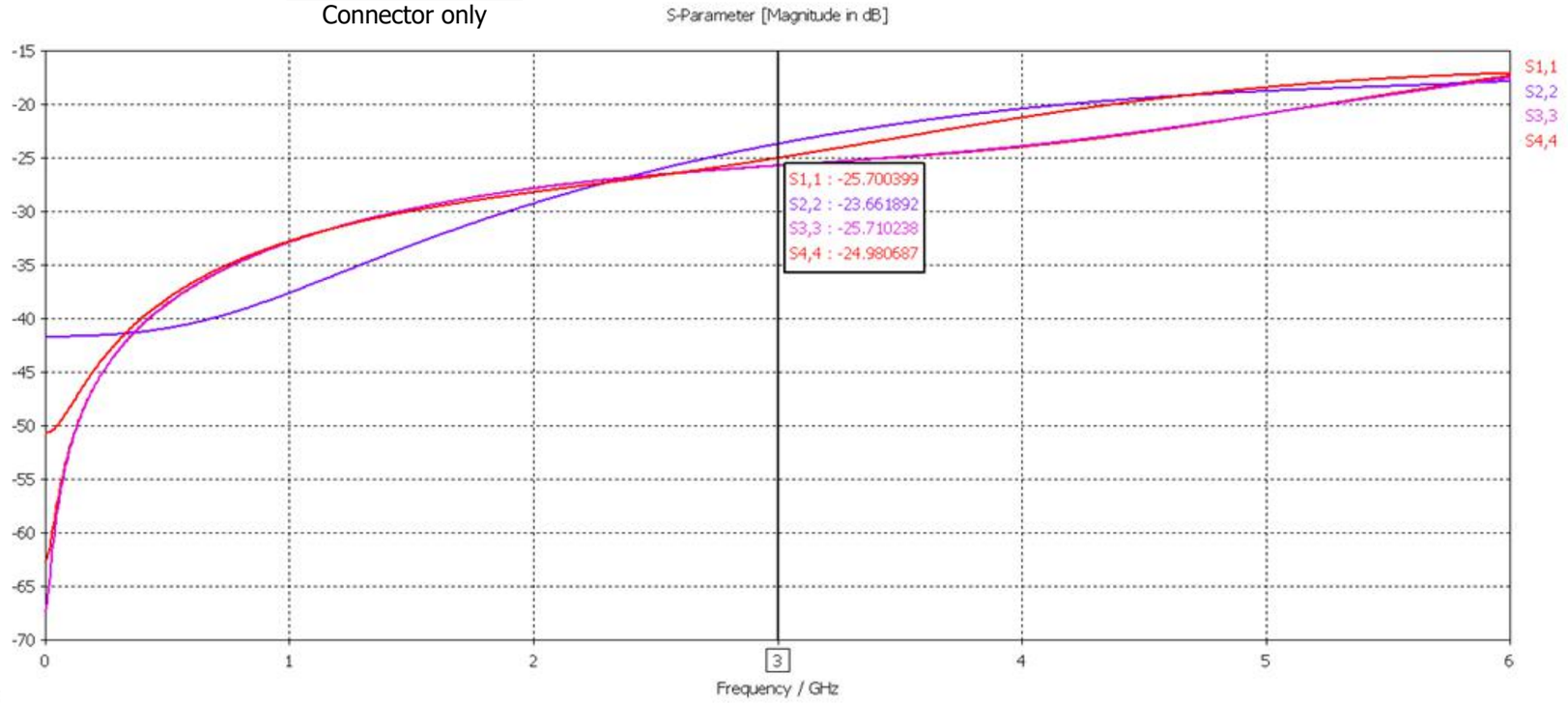


Recommended panel cutout



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 03 Jun 2016	A3
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			Part No: XGS-06-RB42-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:

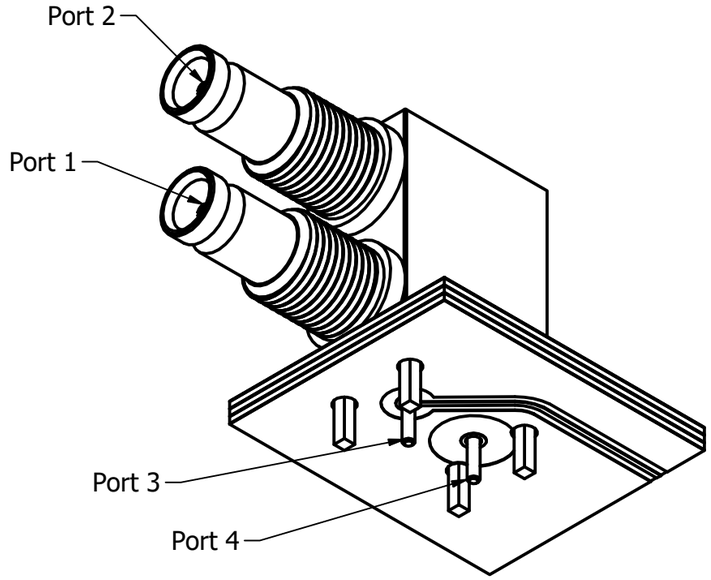
Centre contact	Beryllium Copper / Au plated
Metal parts	Brass / Au plated
Insulators	Polytetrafluoroethylene

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 03 Jun 2016 — A3
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