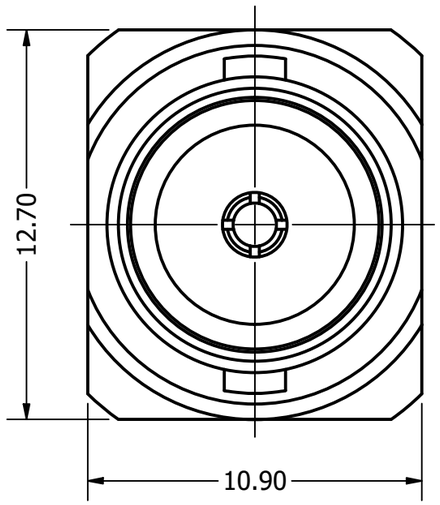
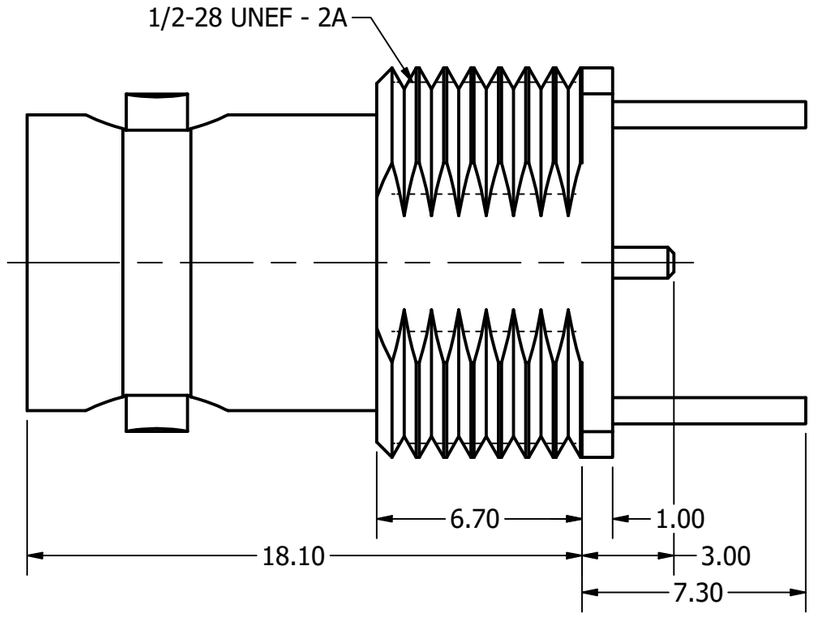
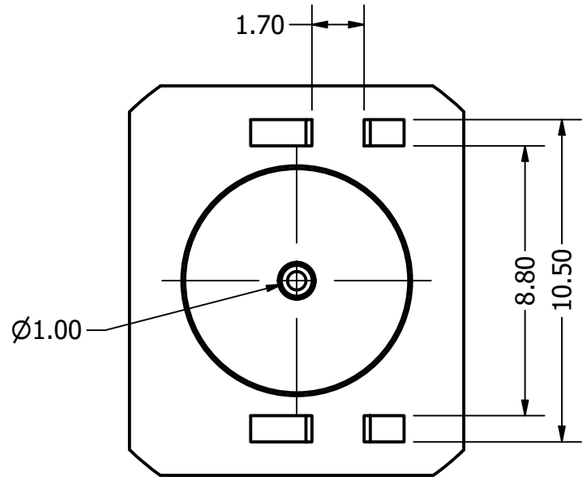
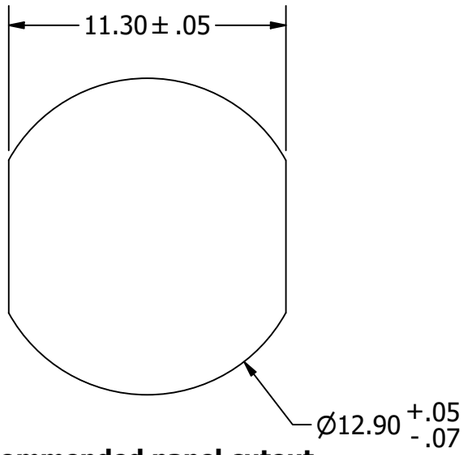
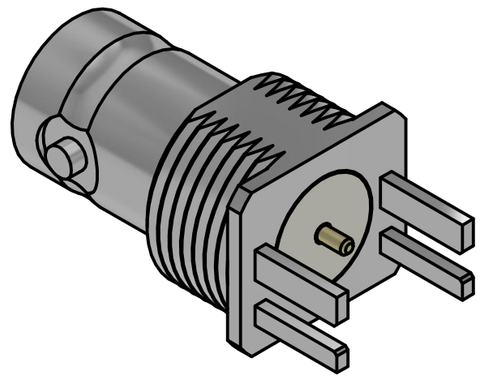








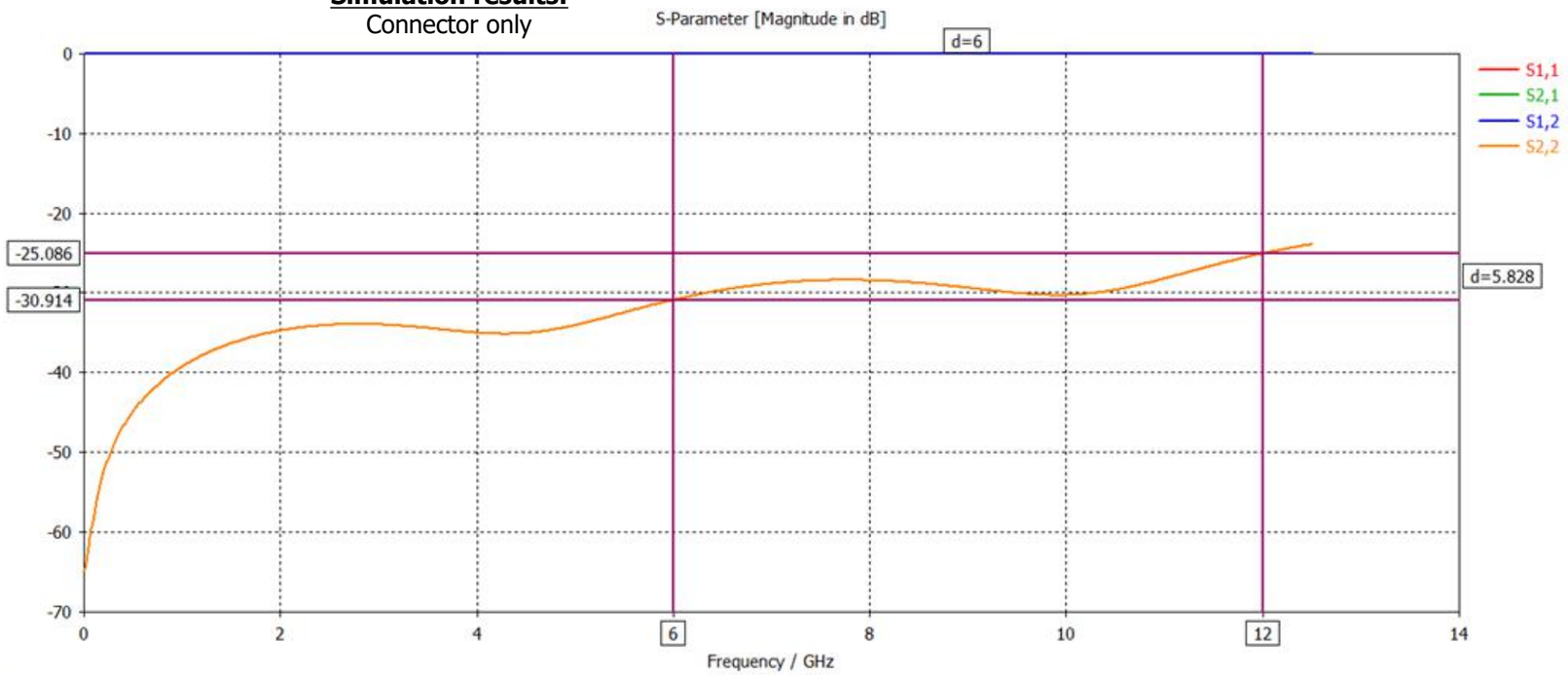
Recommended panel cutout



REVISION HISTORY			
REV	DESCRIPTION	DATE	DESIGNER
3.0	Updated P/N	02 Apr 2024	Peter Millard
3.1	Updated Body	20 Jan 2025	Peter Millard
3.2	Added Clarification to Body	04 Jun 2025	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 Fayers	Checked by	Approved by	©2024	Date 18 Dec 2013	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 BNC Socket 12GHz Edge Mount Bulkhead for 1.6mm PCB with Short Pin			
			Part No: XBS-12-EB16-NNS Cust	Issue 3.2	Sheet 1 / 2	

Simulation results:
Connector only



Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	500 V_{RMS}
Dielectric withstanding voltage	1500 V_{RMS}
Reflection factor (VSWR)	1.06 MAX DC ~ 6.0 GHz
	1.12 MAX DC ~ 12.0 GHz
Contact resistance	Centre contact ≤1.5 mΩ
	Outer contact ≤1.0 mΩ
Insulation resistance	≥5000 MΩ

Materials:

Centre contact	Phosphor Bronze / Au plated
Metal parts	Brass / Ni plated
Insulators	Polytetrafluoroethylene

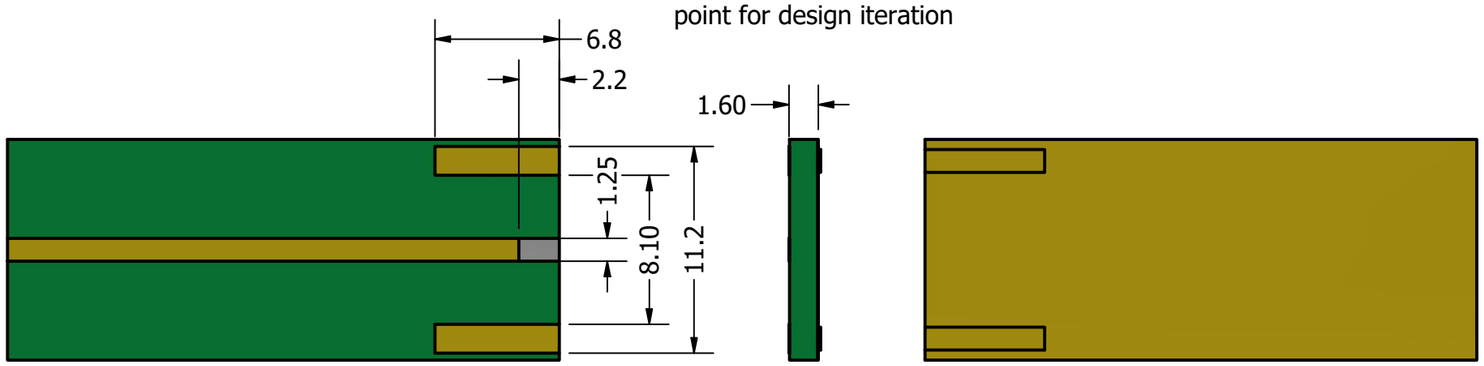
Environmental:

Temp ranges	-65 ~ +85°C
Mating cycles	250
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

Suggested PCB layout
Intended as a starting point for design iteration



Design Right Protected	Material:	Finish:	Gen Tol ±0.10	DO NOT SCALE	
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			Part No: XBS-12-EB16-NNS Cust	Issue 3.2	Sheet 2 / 2