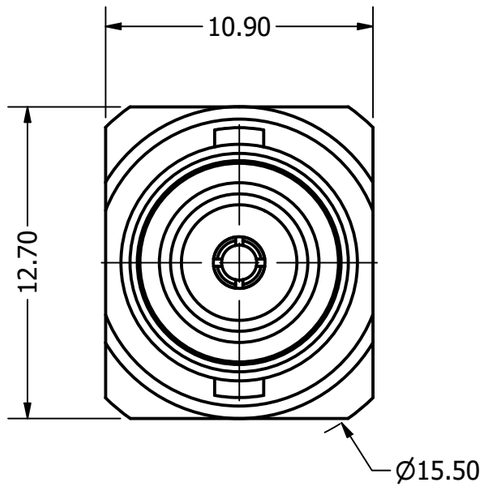
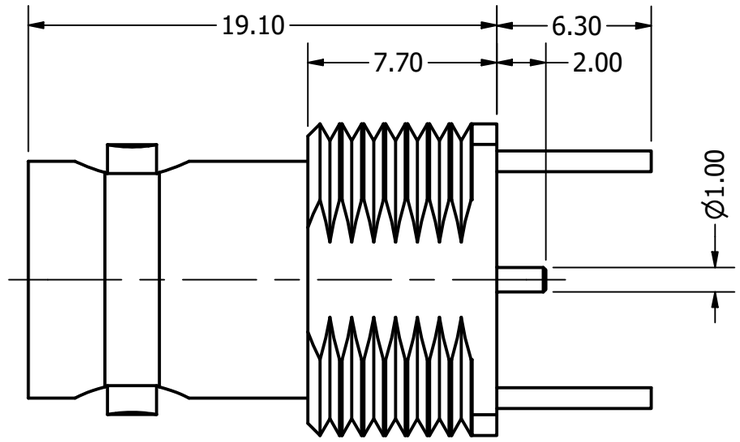
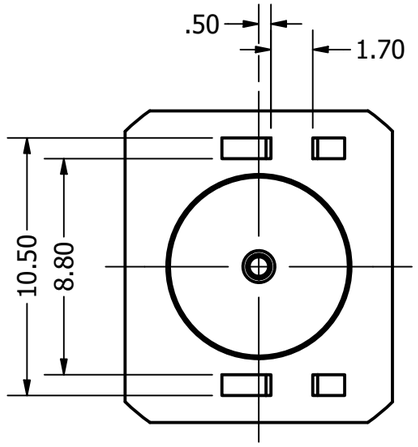
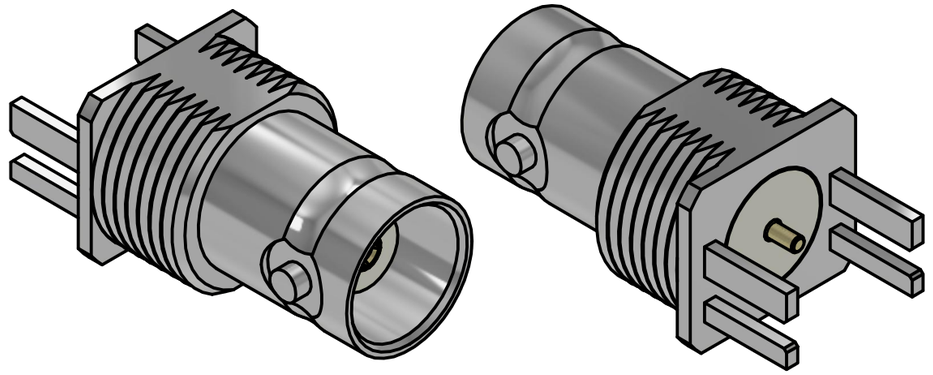
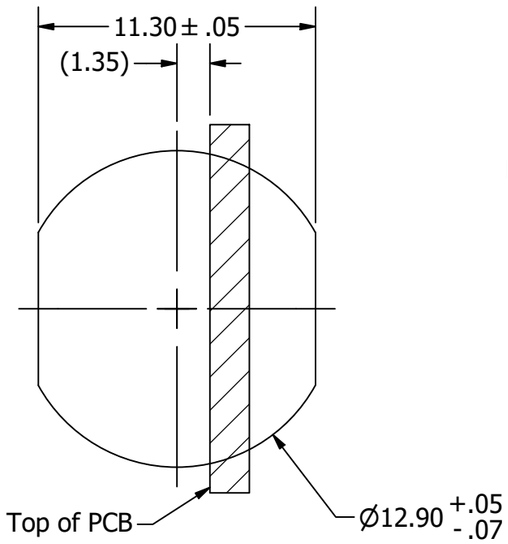


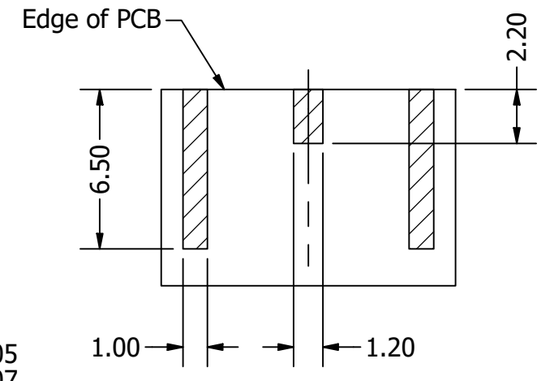








Recommended panel cutout



Recommended PCB footprint

REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
1.0	Origin	-	01 May 2025	Peter Millard
1.1	Added detail to contact	FB / SUPP	02 Jun 2025	Peter Millard
1.2	Revised all component drawings, adding details and clarifying	FB / SUPP	04 Jun 2025	Peter Millard
1.3	Converted to final P/N	FB / INT	21 Jan 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 Peter Millard	Checked by	Approved by	©2024	Date 01/05/2025	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: 50Ω BNC Socket 12GHz Edge Mount Bulkhead for 1.6mm PCB with Short Pin		
			Part No: ZBS-12-EB16-NNS Cust	Issue 1.3	Sheet 1 / 2

Source:E:\Cambridge Connectors\Live Products\Engineering Data\(B) BNC\ZBS-12-EB16-NNS (NPO 3834 C)\ZBS-12-EB16-NNS

Electrical:

Impedance	50Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	500 VRMS
Dielectric withstanding voltage	1500 VRMS
Reflection factor (VSWR)	1.13 MAX DC ~ 6.0 GHz
	1.23 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

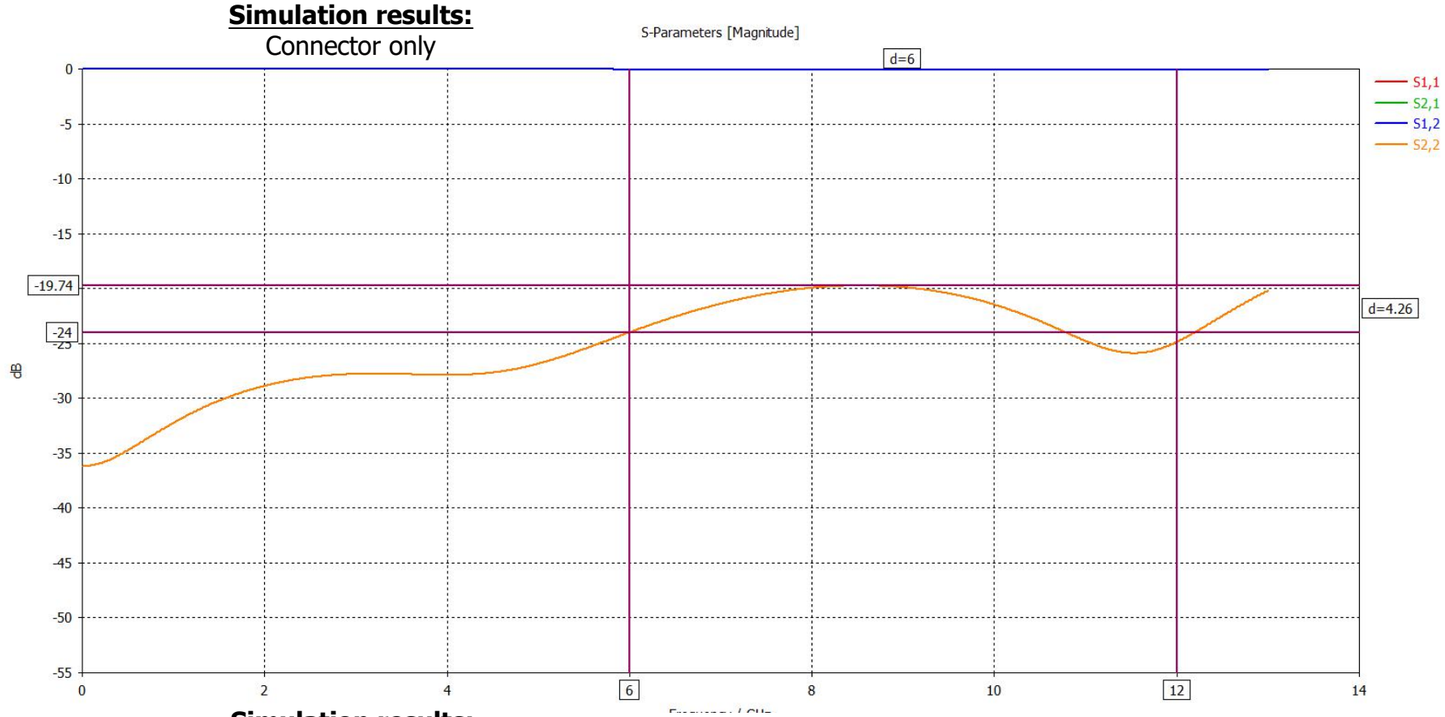
Environmental:

Temp ranges	-65 ~ +85°C
Mating cycles	250
Vibration	N/A
Salt spray	N/A

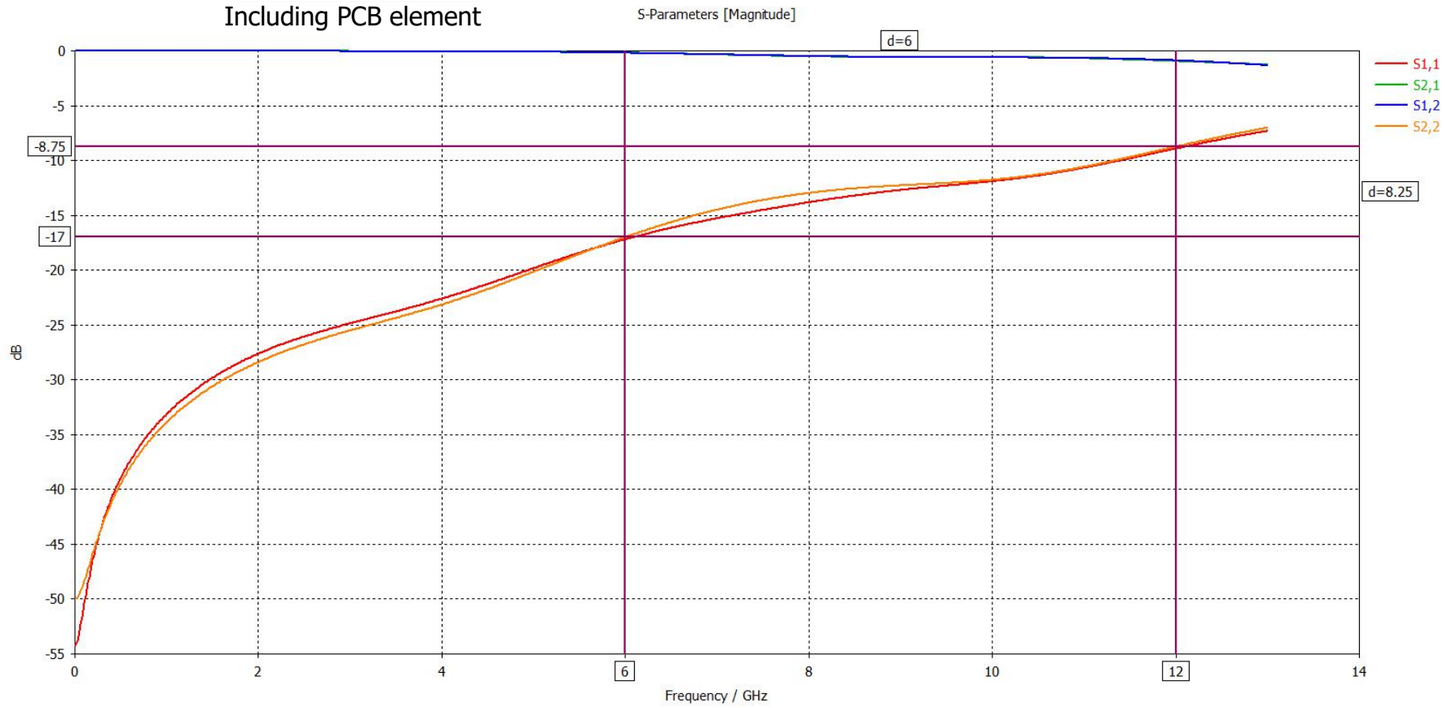
Processing:

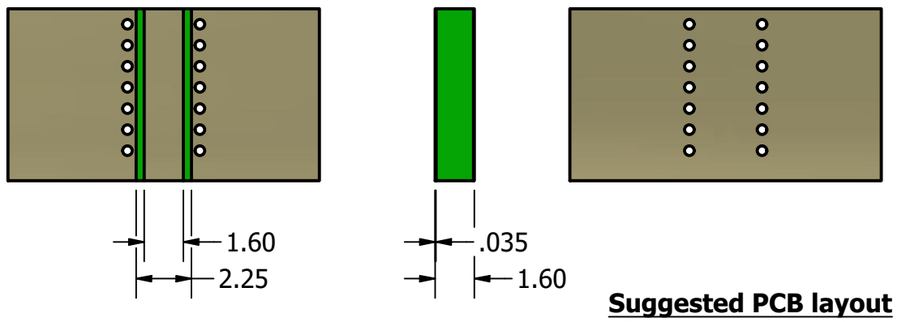
Hand solder	Recommended / 260°C MAX 10 ~ 12 seconds dwell time
Wave solder	Recommended / 260°C MAX 10 ~ 12 seconds dwell time
Reflow solder	Not recommended

Simulation results:
Connector only



Simulation results:
Including PCB element





Suggested PCB layout
Intended as a starting point for design iteration

Design Right Protected

Material:

Finish:

Gen Tol ±0.10 Angular ±2°

DO NOT SCALE

Unit of Measure: millimeters (mm)

Third Angle Projection

Designed by Peter Millard

Checked by

Approved by

©2024

Date 01/05/2025

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:
50Ω BNC Socket 12GHz Edge Mount Bulkhead for 1.6mm PCB with Short Pin

Part No: ZBS-12-EB16-NNS Cust

Issue 1.3

Sheet 2 / 2