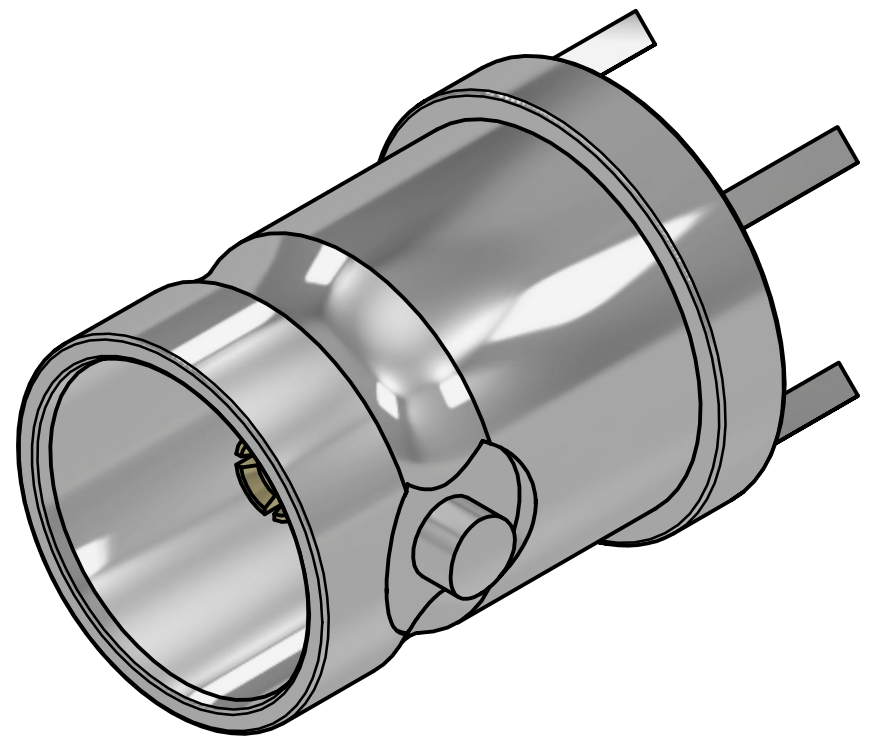
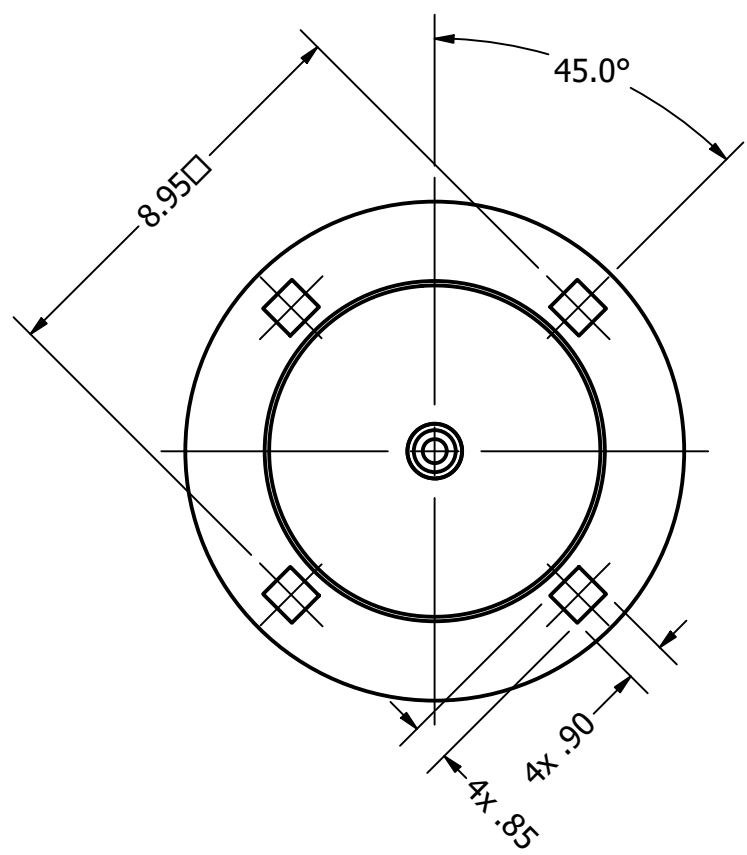
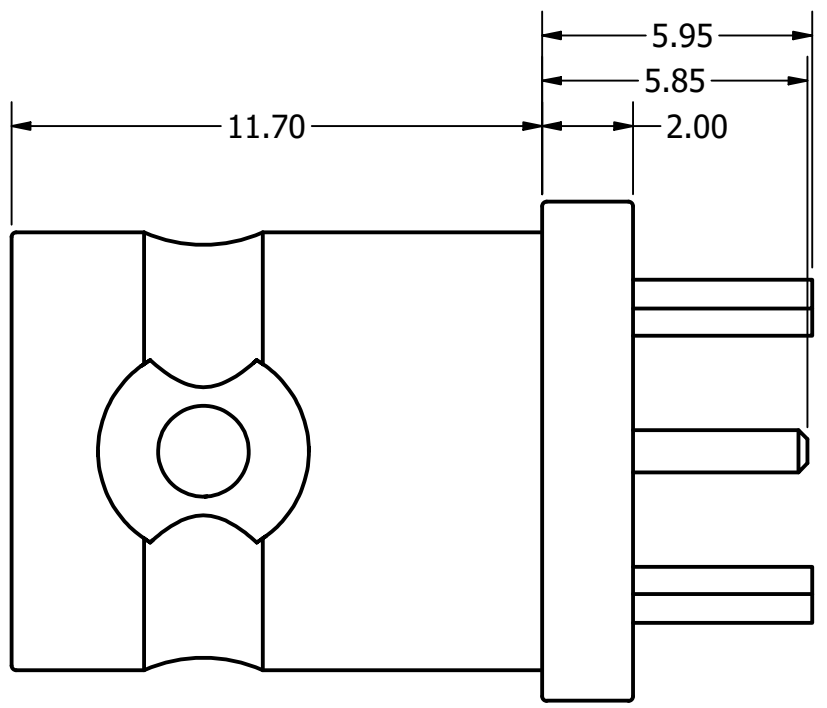
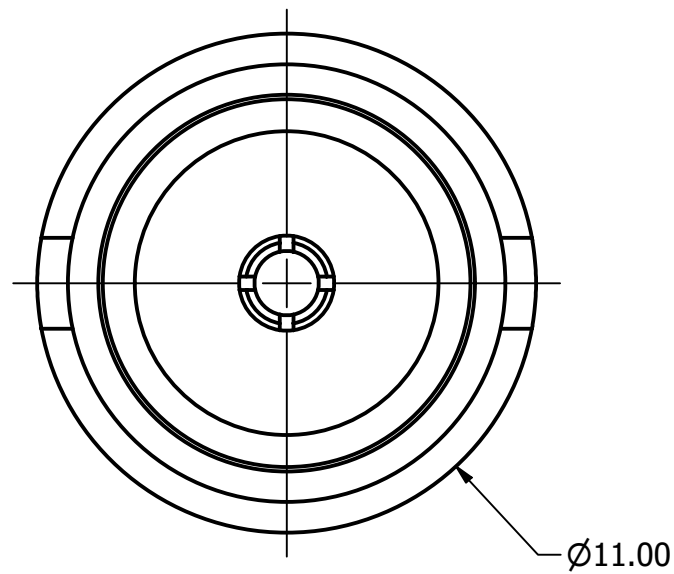




REVISION HISTORY			
REV	DESCRIPTION	DATE	DESIGNER
3.0	Updated P/N	27 Jun 2024	Peter Millard
3.1	Updated body tol	15 Dec 2025	Peter Millard

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 12 Oct 2006	A3
RoHS Compliant		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 Top Entry, 3.9mm Legs			
				Part No: XBS-12-TE39-NN Cust		Issue 3.1	Sheet 1 / 2

Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	500 V _{RMS}
Dielectric withstanding voltage	1500 V _{RMS}
Reflection factor (VSWR)	1.04 MAX DC ~ 6.0 GHz 1.11 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

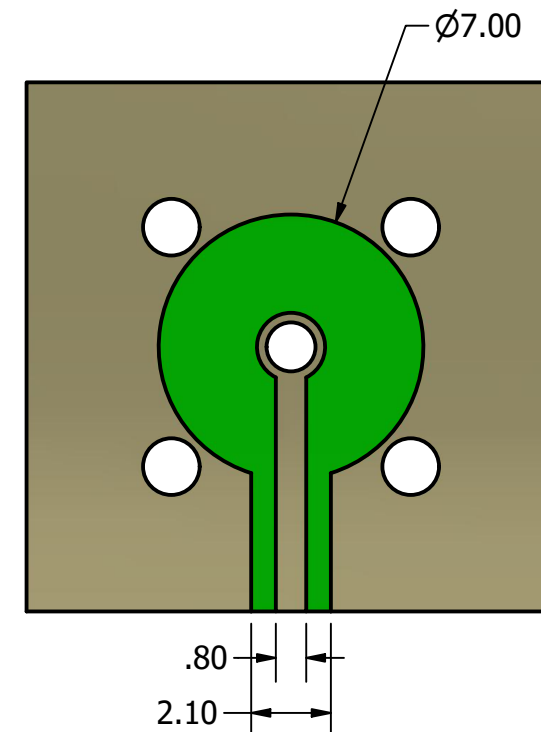
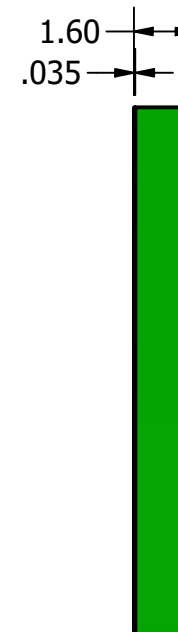
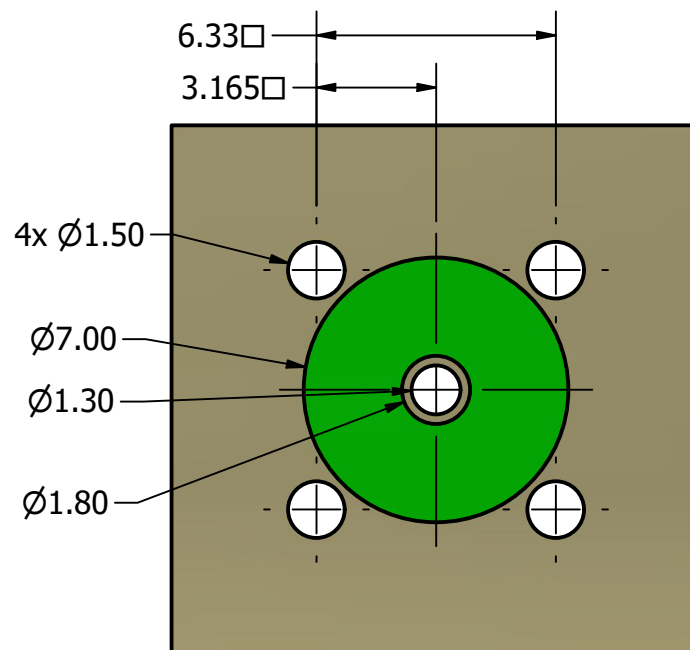
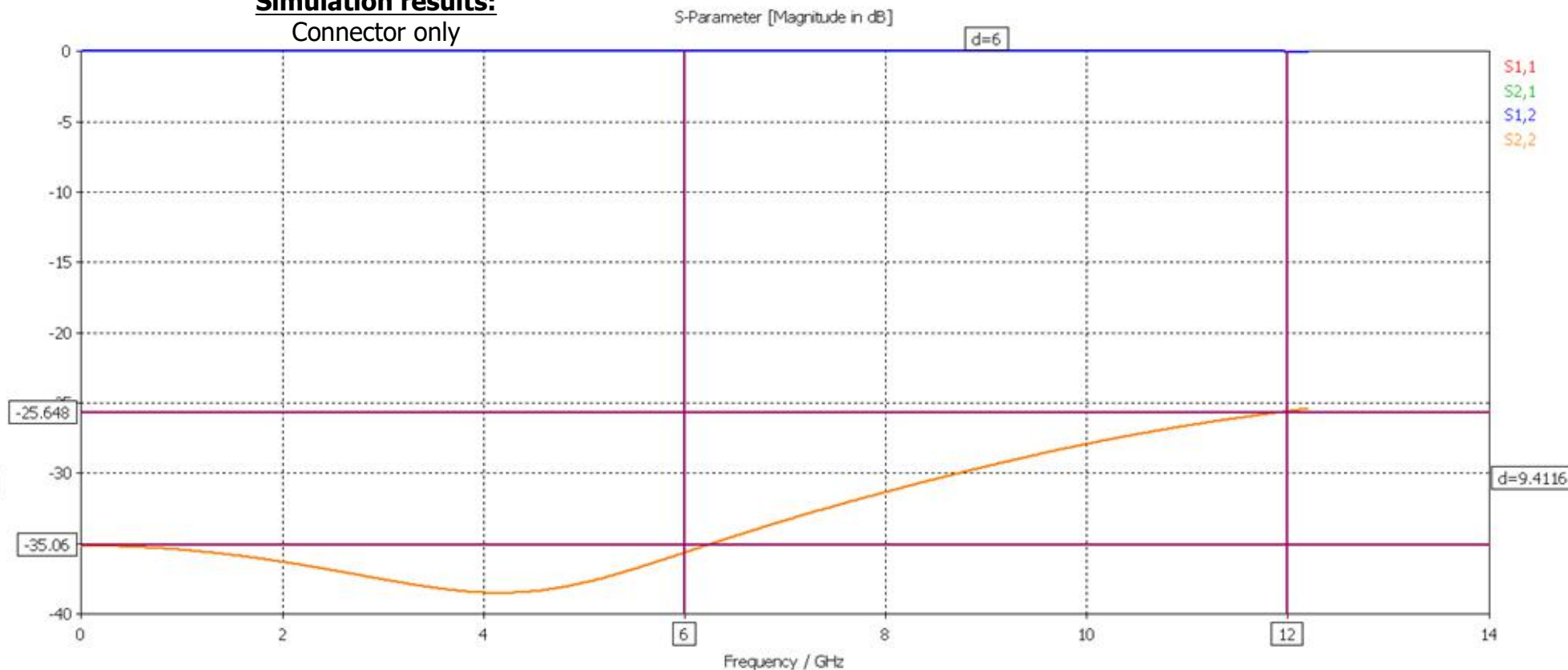
Environmental:

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

Simulation results:
Connector only



Suggested PCB layout
Intended as a starting
point for design iteration

Design Right Protected Third Angle Projection	Material:		Finish:		Gen Tol ±0.10	DO NOT SCALE	
	Designed by Peter Fayers		Checked by		Approved by	©2024 12 Oct 2006	A3
RoHS Compliant	CAMBRIDGE ELECTRONIC INDUSTRIES		Description: 75Ω BNC Socket 12GHz Top Entry, 3.9mm Legs			Part No: XBS-12-TE39-NN Cust	
			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.			Issue 3.1	Sheet 2 / 2