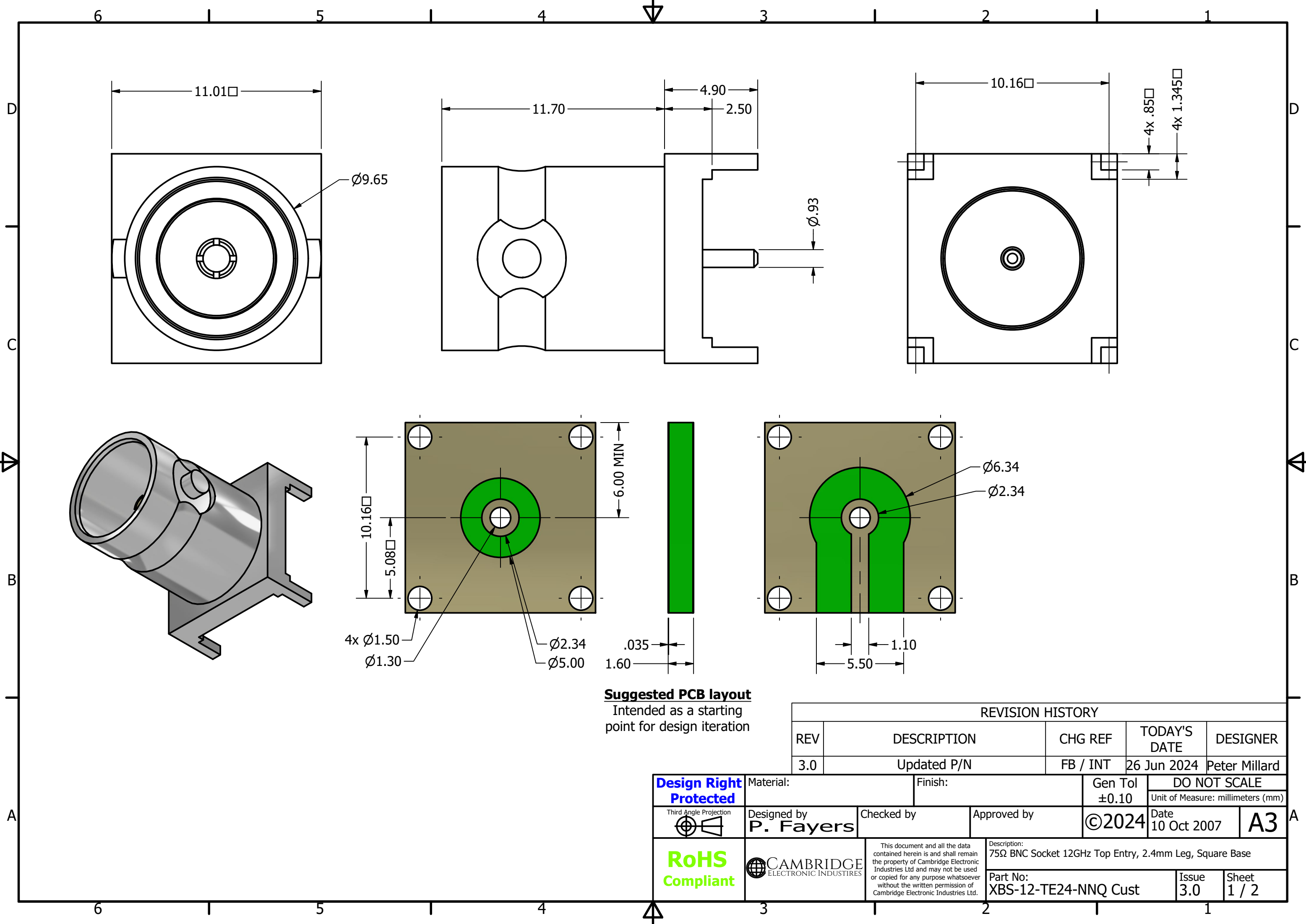
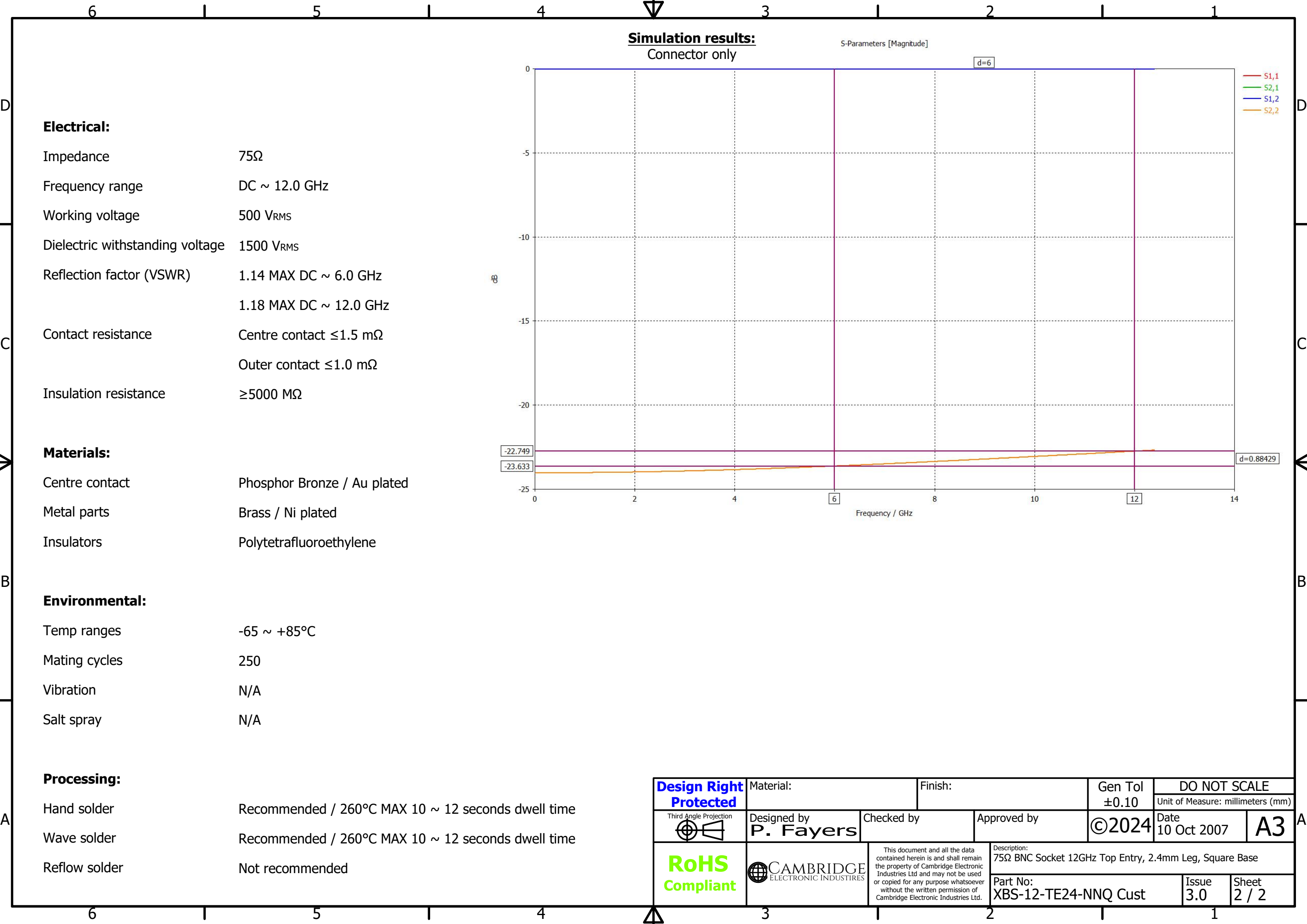




Suggested PCB layout
Intended as a starting point for design iteration

REVISION HISTORY				
REV	DESCRIPTION	CHG REF	TODAY'S DATE	DESIGNER
3.0	Updated P/N	FB / INT	26 Jun 2024	Peter Millard

Design Right Protected	Material:		Finish:		Gen Tol ± 0.10	DO NOT SCALE	
	Designed by P. Fayers		Checked by		Approved by	©2024	Date 10 Oct 2007
RoHS Compliant	Description: 75 Ω BNC Socket 12GHz Top Entry, 2.4mm Leg, Square Base		Part No: XBS-12-TE24-NNQ Cust		Issue 3.0		Sheet 1 / 2
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Electrical:

Impedance	75Ω
Frequency range	DC ~ 12.0 GHz
Working voltage	500 V _{RMS}
Dielectric withstanding voltage	1500 V _{RMS}
Reflection factor (VSWR)	1.14 MAX DC ~ 6.0 GHz
	1.18 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

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 Oct 2007	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 BNC Socket 12GHz Top Entry, 2.4mm Leg, Square Base			
				Part No: XBS-12-TE24-NNQ Cust		Issue 3.0	Sheet 2 / 2