

REVISION HISTORY				
REV	DESCRIPTION	CHG REF	DATE	DESIGNER
3.0	Updated P/N	FB / INT	08 Apr 2024	Peter Millard
3.1	Revised Contact	FB / SUPP	05 Aug 2024	Peter Millard
3.2	Updated harpoon	FB / INT	06 Aug 2024	Peter Millard
3.3	Added inspection details to assembly	FB / SUPP	25 Nov 2024	Peter Millard
3.4	Updated retention ring design Adjusted Pin height	FB / SUPP	19 Dec 2024	Peter Millard

<b>Design Right Protected</b> Third Angle Projection	Material:		Finish:		Gen Tol ±0.10	DO NOT SCALE	
	Designed by <b>Peter Fayers</b>		Checked by		Approved by	©2024	Unit of Measure: millimeters (mm)
<b>RoHS Compliant</b>	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: 12GHz Micro BNC R/A with harpoon for pick and place		
					Part No: XPS-12-RB16-GNHP Cust		Issue 3.4
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Electrical:

Impedance 75 Ohms  
Freq Range 0-12.0 GHz  
Working Voltage 170 Vrms  
Dielectric withstanding voltage >500 Vrms  
Reflection Factor (VSWR) 1.23 Max 0.0-6.0 GHz  
1.86 Max 6.0-12.0 GHz

Contact Resistance Center Contact 5.0 m Ohm  
Outer Contact 2.5 m Ohm  
Insulation Resistance > 1000 Meg Ohm

Materials:

Center Pin BeCu/10μ" Au  
Metal Parts Brass / Au or Ni  
Insulators PTFE

Environmental:

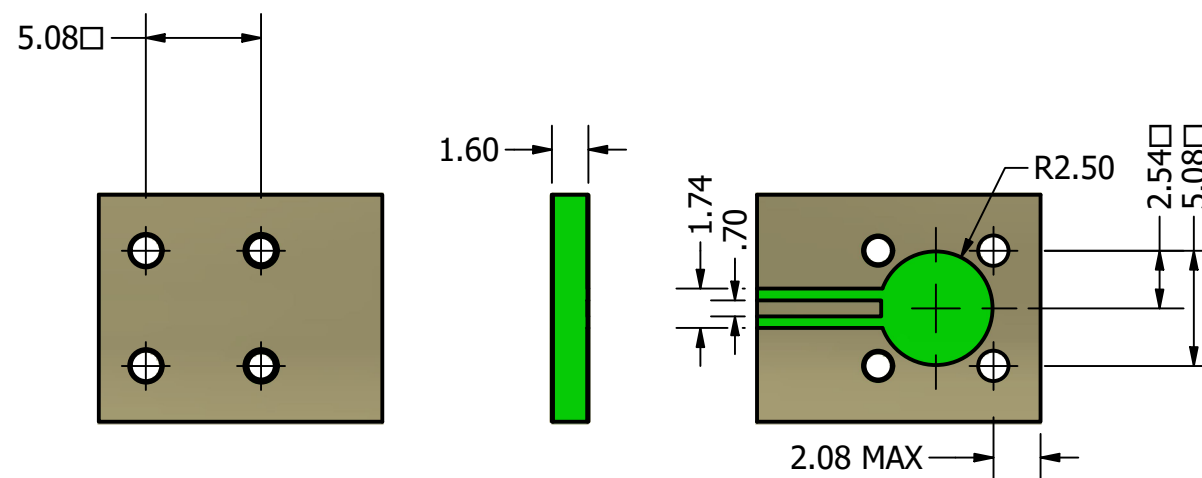
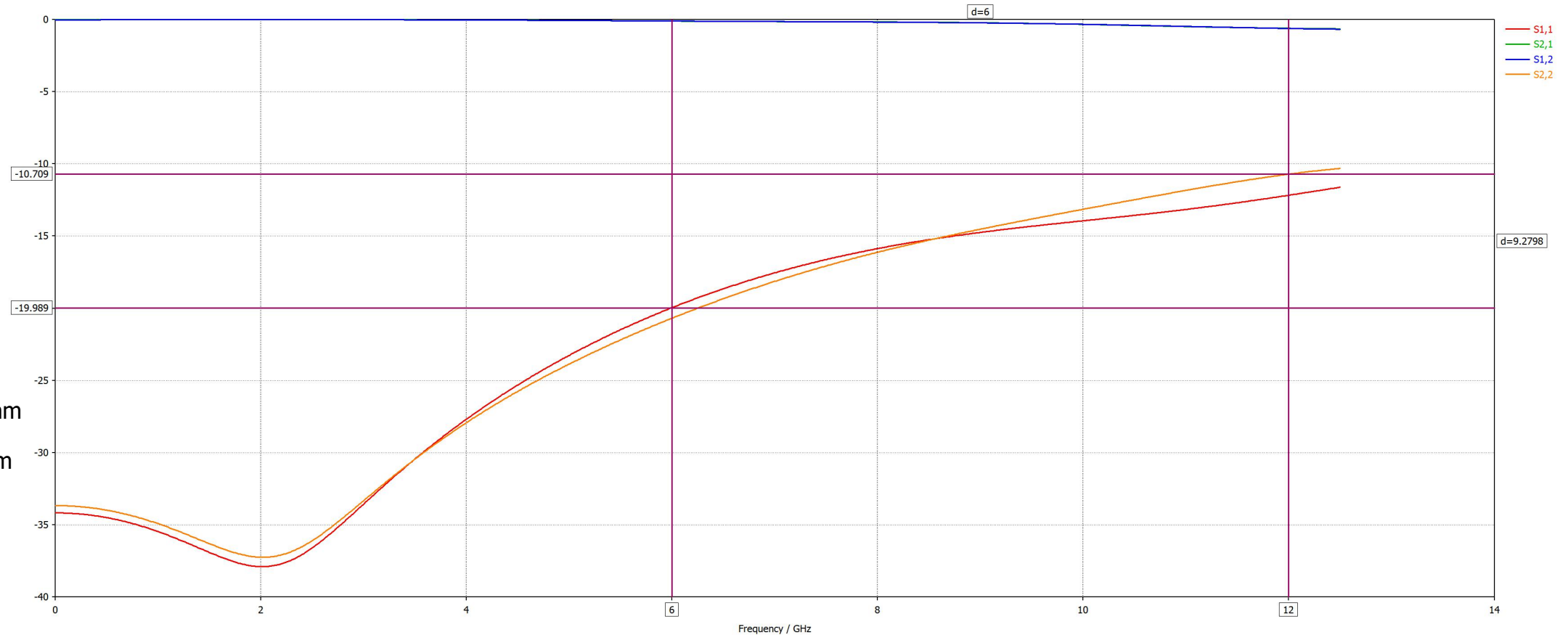
Temp Ranges: -65 to +85°C  
Mating Cycles: 500

Processing:

Reflow Process Temp 245°C MAX  
Hand Solder Temp 260°C

Including PCB Element

S-Parameters [Magnitude in dB]



Suggested PCB layout intended as starting point for design iteration

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