

6 5 4 3 2 1

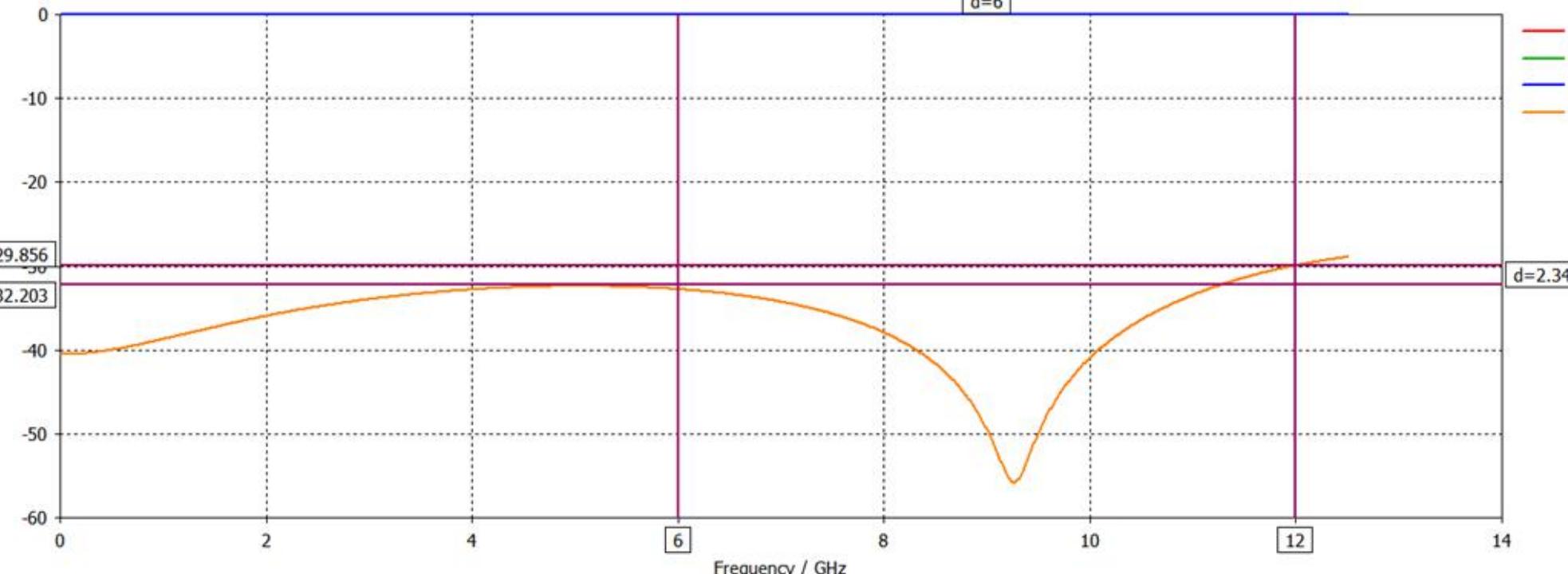
Connector ONLY

S-Parameters [Magnitude in dB]

$d=6$

Electrical:

Impedance 75 Ohms
 Freq Range 0-12.0 GHz
 Working Voltage 170 Vrms
 Dielectric withstand voltage >500 Vrms
 Reflection Factor (VSWR) 1.07 Max 0.0-12.0 GHz

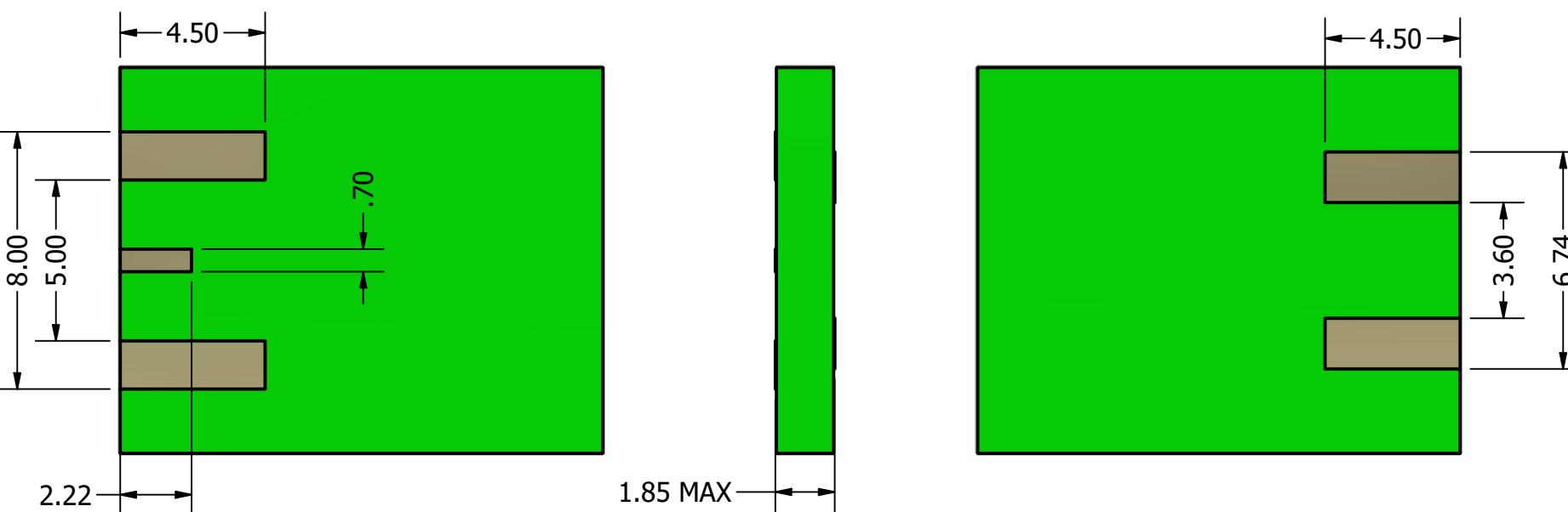


Contact Resistance Center Contact 5.0 m Ohm
 Outer Contact 2.5 m Ohm
 Insulation Resistance > 1000 Meg Ohm

Materials:

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

Suggested PCB layout intended as starting point for design iteration



Environmental:

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

| Design Right Protected | | Material: | Finish: | Gen Tol ± 0.10 Angular $\pm 2^\circ$ | DO NOT SCALE | | |
|---|--|--------------------------|------------|---|--|------------------|-------------|
| | | Designed by Peter Fayers | Checked by | Approved by | ©2024 | Date 23 May 2017 | A3 |
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| 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 75 ohm Micro BNC Female Bulkhead Edge Mount for 1.9mm PCB | | |
| | | | | | Part No: XPS-12-EB19-GGO Cust | Issue 3.1 | Sheet 2 / 2 |