

GT-24-112

NanoRF Contact

RF Signal Integrity Report

Glenair Contacts 852-309 and 852-310





Revision History

Rev	Date	Issued	Approved	Description
1	6/12/2024	L. Blackwell, W, Lewis		Initial Release



Table of Contents

1. Introduction	4
2. Test Information	4
3. Test Results	5

Table of Figures

Figure 1. Mated Sample	4
Figure 2. Insertion Loss Results	5
Figure 3. VSWR Results	6

1. Introduction

This document contains results from testing that was performed to evaluate the high-frequency electrical performance of the Glenair NanoRF contacts. This report outlines the frequency domain performances of Insertion Loss (IL), and Voltage Standing Wave Ratio (VSWR).

2. Test Information

The test samples consisted of the direct attach pin 852-309 and socket 852-310 contacts assembled to six inches of Glenair 962-025-047 cable with 2.92 mm connectors for test equipment attachment. A mated sample is shown in Figure 1.

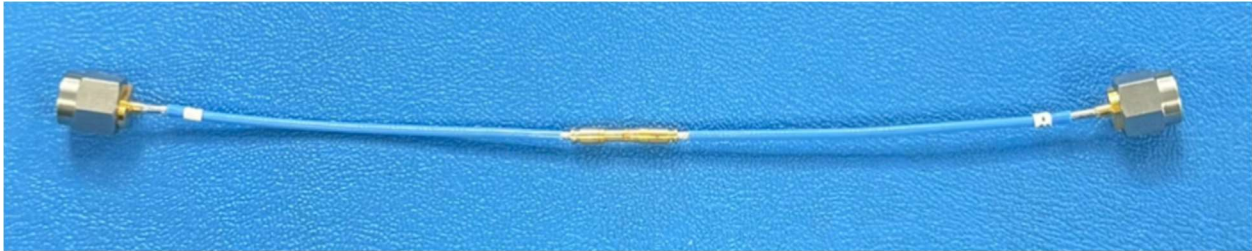


Figure 1. Mated Sample

Measurements were taken using a Keysight N5227B PNA network analyzer. No test fixturing was required as the test samples are directly connected to the test equipment. A 2x-thru measurement was made to remove the lead in coax effects. The test data was saved in a touchstone (.s2p) format.

3. Test Results

Figure 2 below depicts the insertion loss results while Figure 3 depicts the VSWR results.

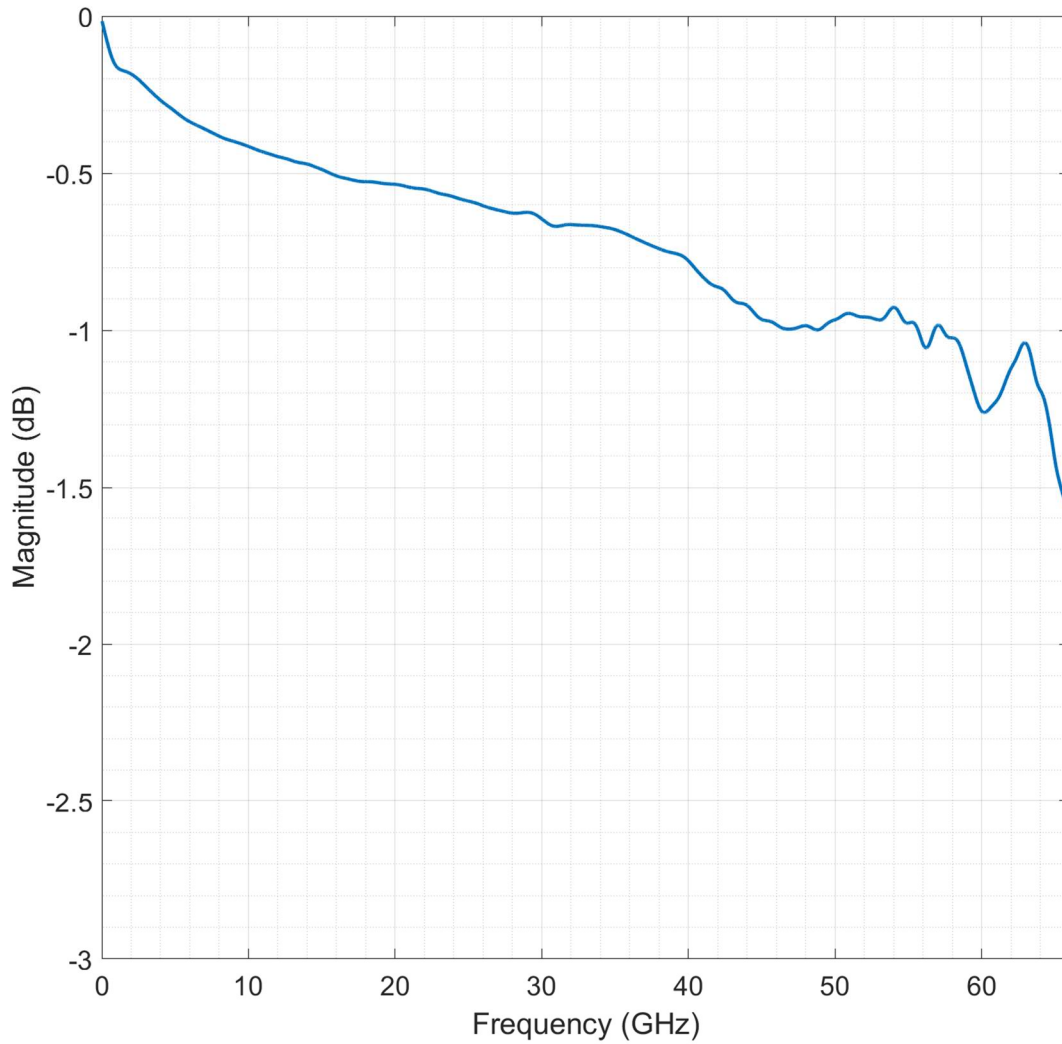


Figure 2. Insertion Loss Results

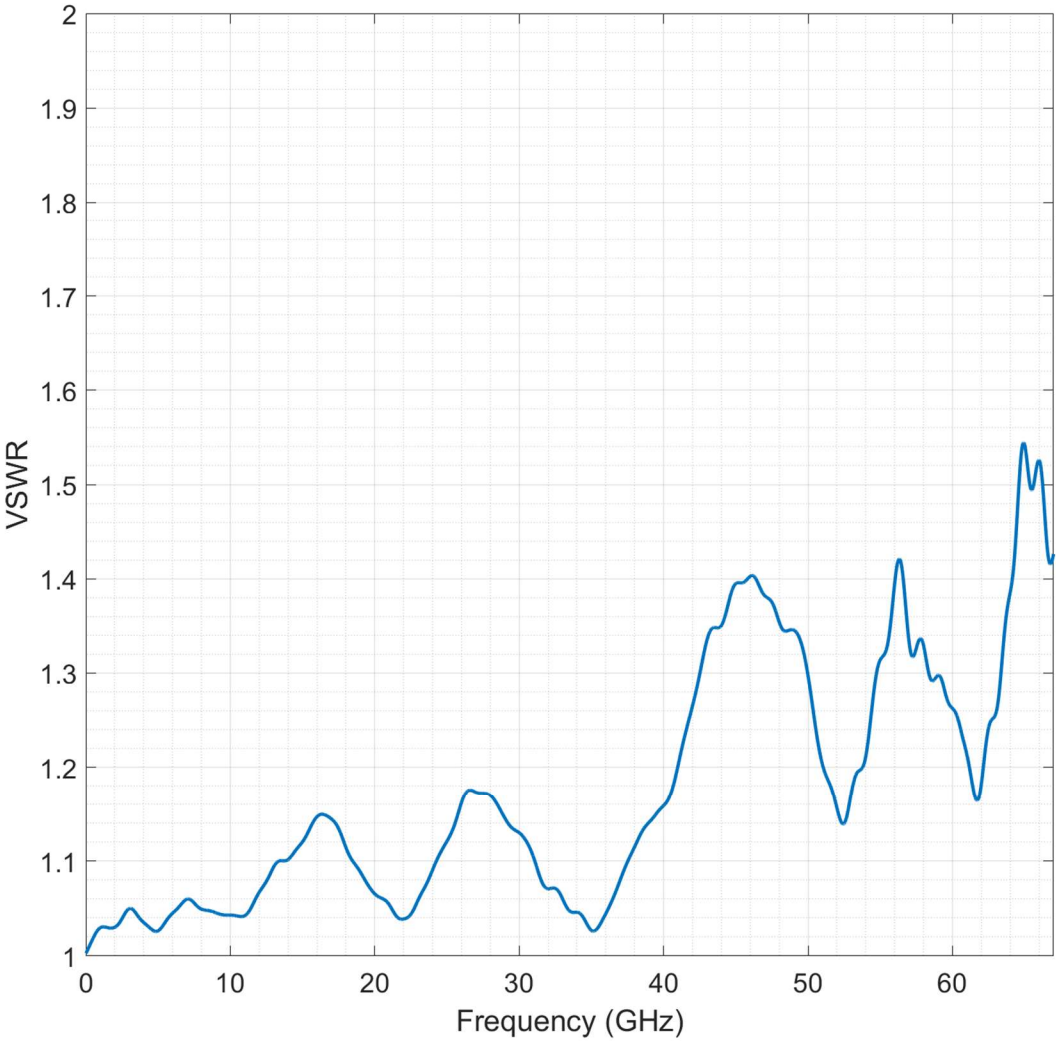


Figure 3. VSWR Results