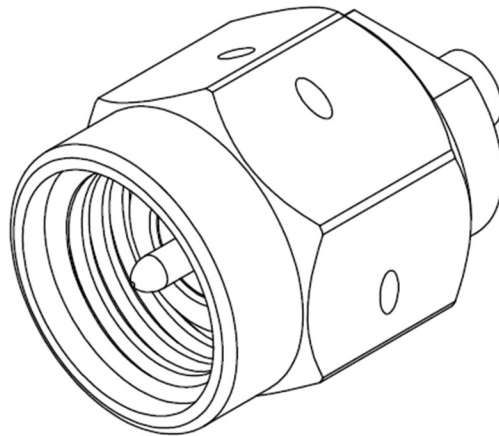




GT-25-022

COAX CONNECTOR, SMA MALE
GRF01-0300-SMA-MS-047 FOR CABLE 962-025-047
RF Signal Integrity Report





Revision History

| Rev | Date | Issued | Approved | Description |
|-----|----------|----------------------------|-------------|-----------------|
| 1 | 2/3/2025 | L. Blackwell / W. Lewis | G. Hunziker | Initial Release |
| | | | | |
| | | | | |
| | | | | |

Table of Contents

| | |
|---------------------------------------|---|
| 1. Introduction | 3 |
| 2. Test Information | 3 |
| 2.1. Test Samples | 3 |
| 2.2. Test Setup | 3 |
| 3. Test Results | 4 |
| 3.1.1. Connector Insertion Loss | 4 |
| 3.1.2. Connector VSWR | 5 |

Table of Figures

| | |
|--|---|
| Figure 1. GRF01-0300-SMA-MS-047 Test Article | 3 |
| Figure 2. Connector Insertion Loss | 4 |
| Figure 3. Connector VSWR | 5 |

1. Introduction

This document contains results from testing that was performed to evaluate the high-frequency electrical performance of the Glenair SMA Male connector, part number GRF01-0300-SMA-MS-047. This report outlines the frequency domain performances of Insertion Loss (IL) and Voltage Standing Wave Ratio (VSWR).

2. Test Information

2.1. Test Samples

Test samples consisted of GRF01-0300-SMA-MS-047 connectors terminated to Glenair cable 962-025-047. Two lengths were used (6" and 3") to calculate insertion loss from measured data.

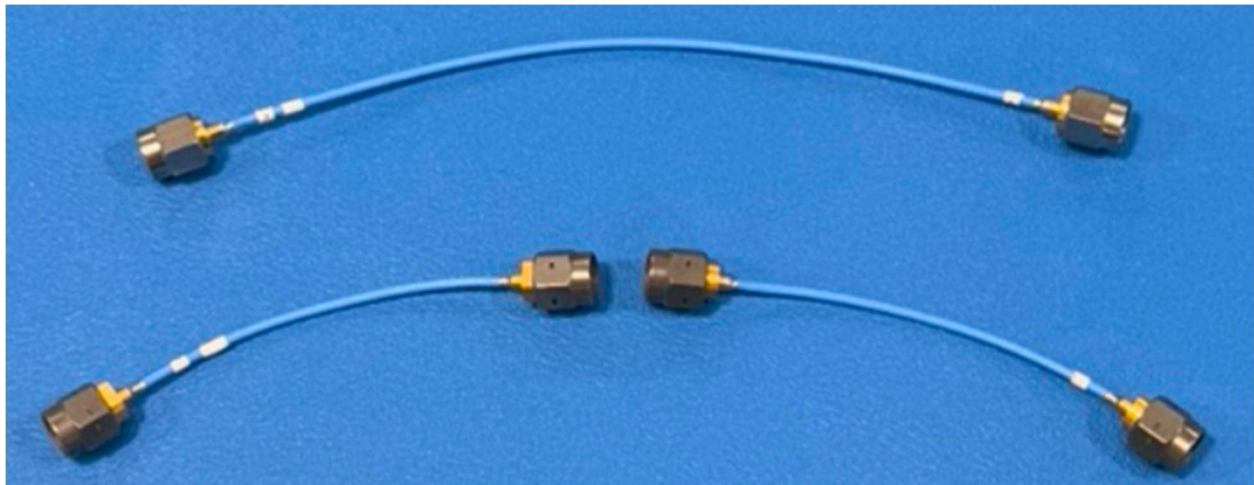


Figure 1. GRF01-0300-SMA-MS-047 Test Article

2.2. Test Setup

Measurements were taken using a Tektronix DSA8300 Digital Serial Analyzer and an Anritsu MS46524B Vector Network Analyzer. No test fixturing was required as the test samples are directly connected to the test equipment. The test data was saved in a touchstone (.s2p) format.

3. Test Results

3.1.1. Connector Insertion Loss

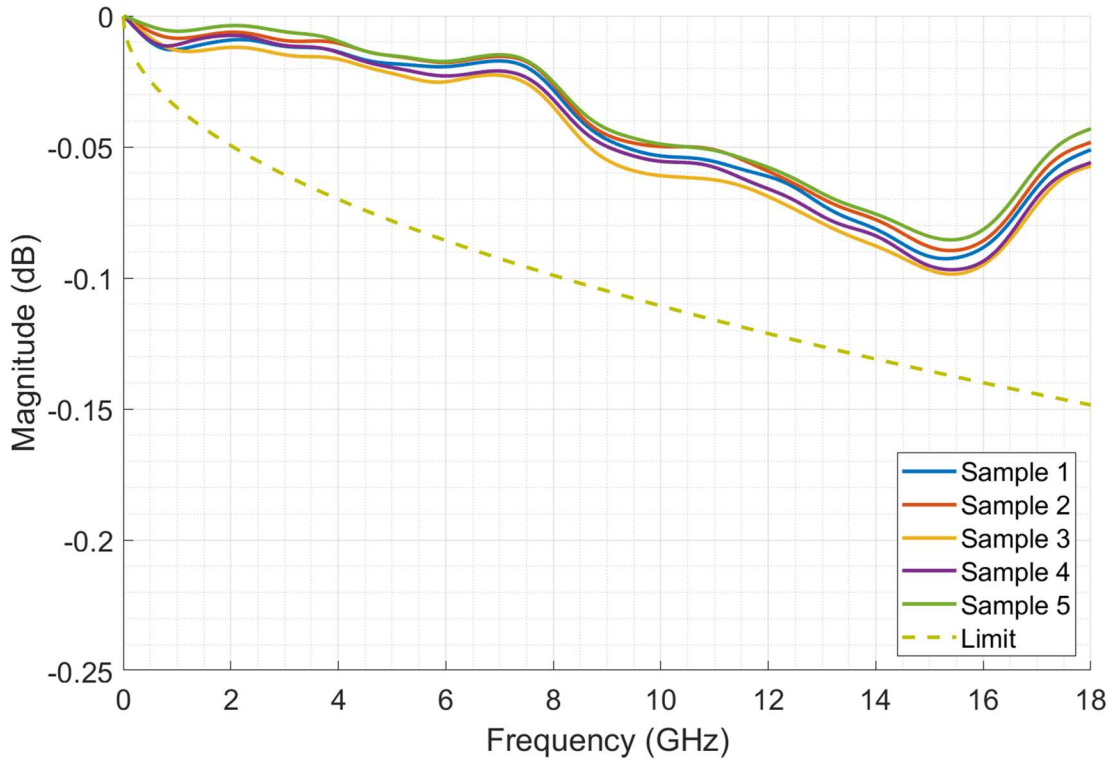


Figure 2. Connector Insertion Loss

3.1.2. Connector VSWR

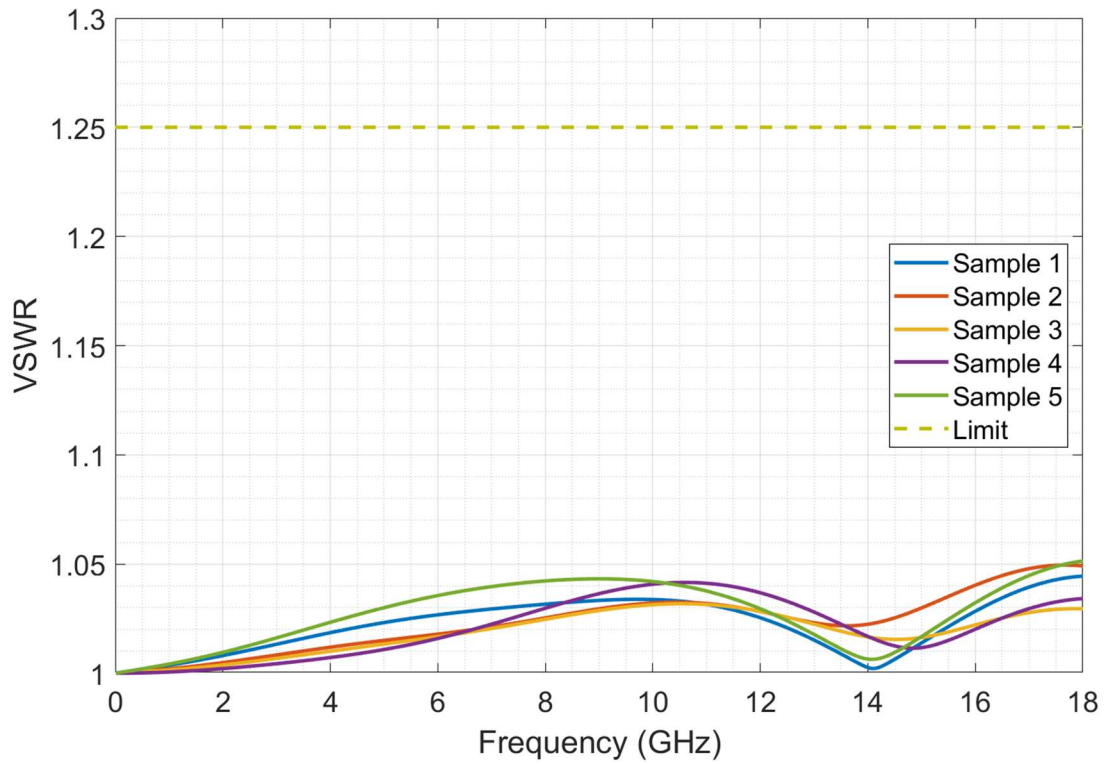


Figure 3. Connector VSWR