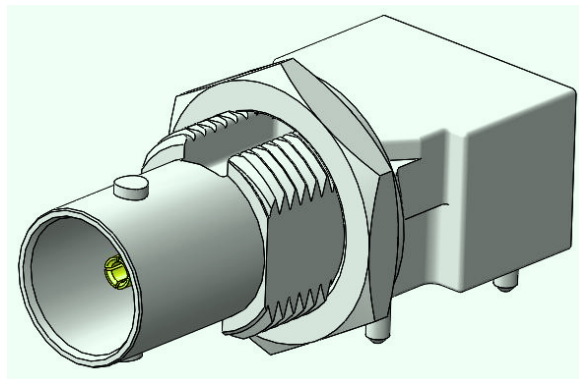




RF Characterization Report

BNC7T Series RF Connector

BNC7T-J-P-GN-RA-BM1D



Description:

75 Ohm BNC Bulkhead Jack, Right Angle, Through-hole

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Series: BNC7T

Description: 75 Ohm BNC Bulkhead Jack, Right Angle, Through-hole

Test Setup Information

Scope:

To perform characterization test. Return Loss was presented in the report following the 12G-SDI specification.

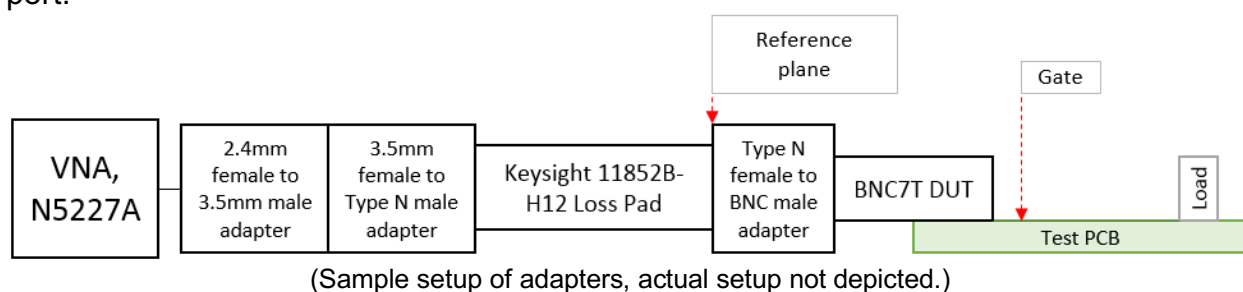
Product Description:

The table below presents a description of the BNC7T series connector that was tested.

Part Number	Termination – End 1	Termination – End 2
BNC7T-J-P-GN-RA-BM1D	BNC7T Jack end	BNC7T PCB mounted end

Test Calibration and Process:

The test diagram is showed as below. The connectors were tested using PCB-109088-MKT REV 0. Before the measurements, SOLT calibration was performed using Keysight 85036B calibration kit to move the reference plane to the end of Keysight 11852B-H12 Loss Pad. The PCB effects and the Type N to BNC adapter were included in the measurements. The PCB trace effects (trace loss and test point reflections) were removed from the test data by use of the gating in Keysight PLTS. Board related effects, such as BOR, pad-to-ground capacitance, are included in the data presented in this report.



Series: BNC7T

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Adapter Use:

Each port uses at least one precision adapter capable of mating to the connector under test. Any supplementary adapter will contribute additional electrical characteristics to the measured data. Any use of additional adapters is noted. The PE9651 and 1250-1744 adapters effects were removed by the SOLT calibration. The PE9368 was included in the test data.

- PE9651: 2.4mm female to 3.5mm male adapter, Pasternack
- 1250-1744: 3.5mm female to 50ohm Type N male adapter, Keysight
- PE9368: 75ohm Type N female to BNC male adapter, Pasternack

Definition of Connector under Test:

The performance characteristics include BNC7T connector and the interface with BOR and its footprint and the N Type to BNC adapter (PE9368).

Port Designations:

The connector attached to port 1 of the VNA is "End 1" from the part number callout. The Return Loss is measured using S11.

Legend for Plots:

2 samples were tested. Both the samples are presented in this report.

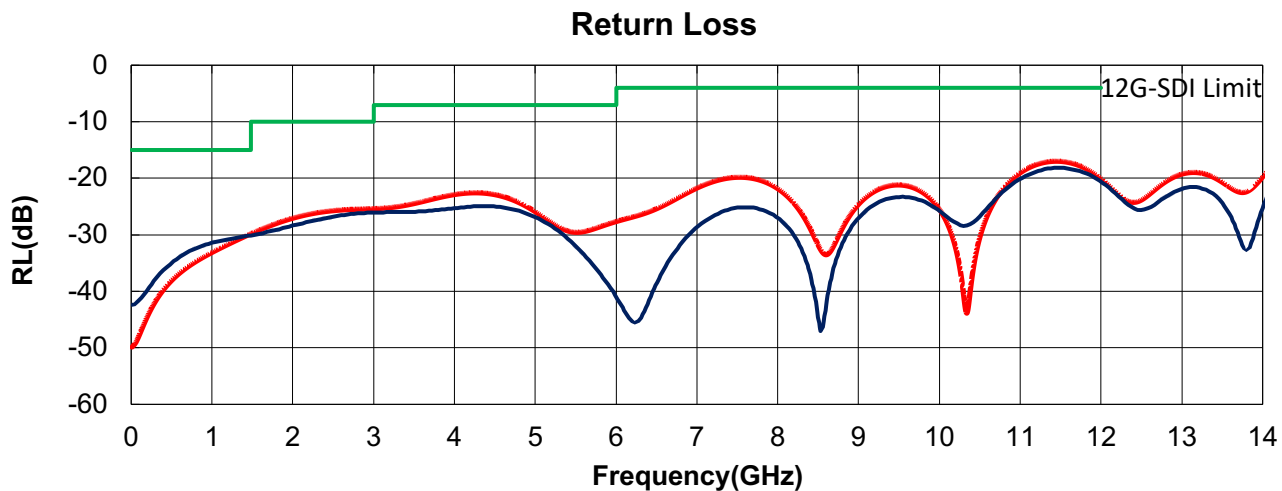
Series: BNC7T

Description: 75 Ohm BNC Bulkhead Jack, Right Angle, Through-hole

Results Summary

BNC7T-J-P-GN-RA-BM1D

Test Parameter	Sample 1	Sample 2
Return Loss (max)	-17.0dB@ 11.45 GHz	-18.2dB@ 11.48 GHz



Series: BNC7T

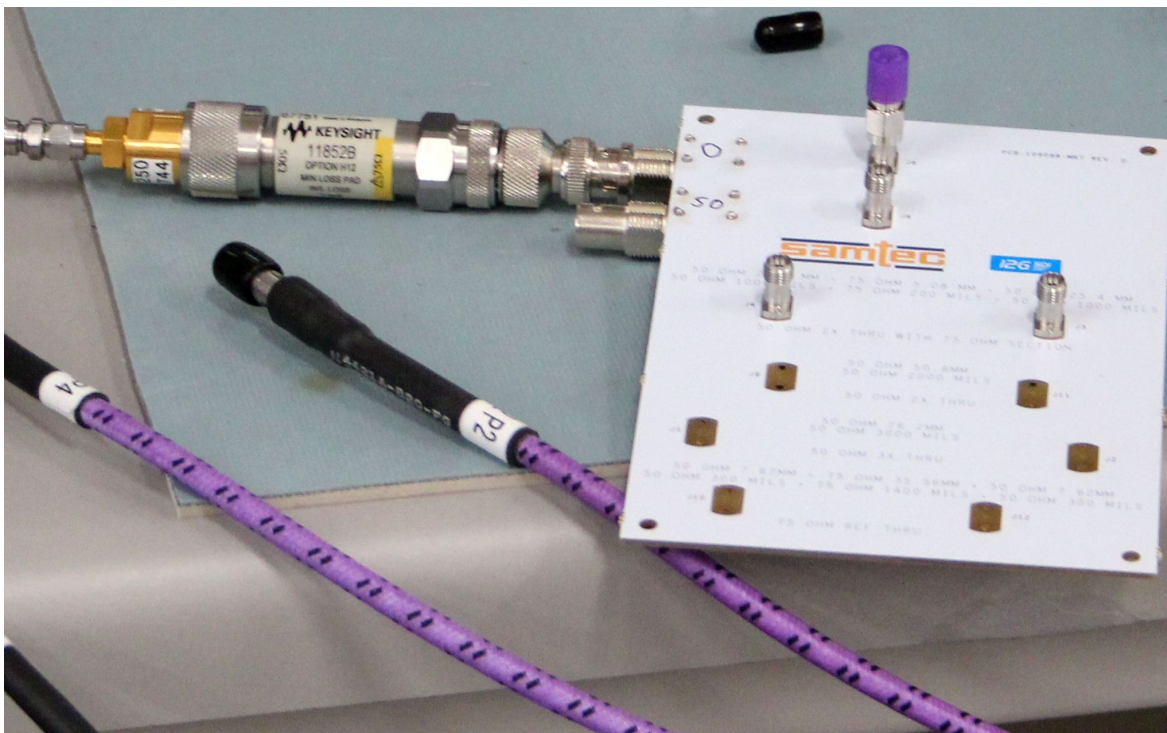
Description: 75 Ohm BNC Bulkhead Jack, Right Angle, Through-hole

Instrument Setup:

Network analyzer (Keysight N5227A) was used for the measurements and setup as below:

Network Analyzer	Keysight N5227A PNA Series (10 MHz - 67 GHz)
Calibration Kit	Keysight 85036B 12GHz Type N 75ohm Cal Kit
Type N Loss Pad	11852B-H12, Tested for operation to 12 GHz
Averaging Factor	1
Smoothing	Off
IF Bandwidth	1 KHz
Sweep Start	10 MHz
Sweep End	24 GHz
Number of Points	2400

Test Fixtures:



N5227A (Typical set-up, actual part not depicted.)