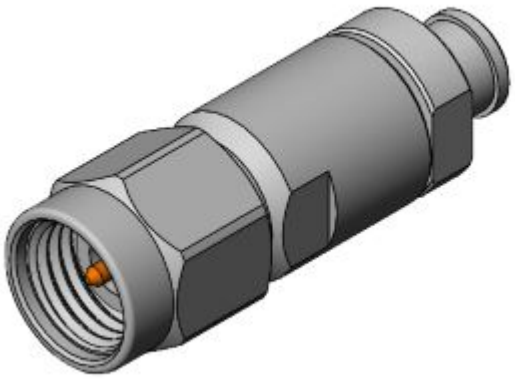
Project Number: Design Qualification Test Report	Tracking Code: CR-1321007_Report_Rev_1
Requested by: Willy Yeh	Date: 9/9/2025
Part #: NR-PRF92-P-C-EP-071B-SS.TW	
Part description: PRF92-071B	Tech: Zack Wang
Test Start: 8/22/2025	Test Completed: 8/26/2025



DESIGN QUALIFICATION TEST REPORT

PRF92-071B
NR-PRF92-P-C-EP-071B-SS-.TW

REVISION HISTORY

DATA	REV.NUM.	DESCRIPTION	ENG
9/2/2025	**1**	**Initial Issue**	

CERTIFICATION

All instruments and measuring equipment were calibrated to National Institute for Standards and Technology (NIST) traceable standards according to IS0 10012-l and ANSI/NCSL 2540-1, as applicable.

SCOPE

To perform the following tests: Design Qualification test. Please see test plan.

APPLICABLE DOCUMENTS

Standards: MIL-PRF-39012, EIA Publication 364.

TEST SAMPLES AND PREPARATION

1) All materials were manufactured in accordance with the applicable product specification.
2) All test samples were identified and encoded to maintain traceability throughout the test sequences.
3) Parts not intended for testing LLCR and DWV/IR are visually inspected and cleaned if necessary.
4) Any additional preparation will be noted in the individual test sequences.

FLOWCHARTS

Center Contact Retention

Group 1

NR-PRF92-P-C-EP-071B-SS-.TW

5 Assemblies

LL071 2.92mm Plug Connector

Step	Description
1.	Interface Gaging Interface Depth MAX = 0.003 " *Note: Measure Bushing to Contact shoulder depth using RF Interface Gage.*
2.	Retention - Applied Force Axial Force = 2.25 lbs *Note: Apply force axially to contact tip.*
3.	Interface Gaging Interface Depth MAX = 0.003 " *Note: Measure Bushing to Contact shoulder depth using RF Interface Gage.*

Group 2

NR-PRF92-P-C-EP-071B-SS-.TW

5 Assemblies

LL071 2.92mm Plug Connector

Step	Description
1.	Retention - To Destruct *Note: Apply axial force to contact tip. Push to destruct. Record destruct force.*

ATTRIBUTE DEFINITIONS

The following is a brief, simplified description of attributes.

Center Contact Retention:

1) Apply 2.25 pounds force axially to contact tip

RESULTS

Center Contact Retention

- **Min----------36.91 lbs**
- **Max ----------38.05 lbs**

Interface Gaging

Sample	Initial	After 2.25lb Retention	Delta	Result (Depth < .003)
1	0.0027	0.0027	0.0000	Pass
2	0.0026	0.0027	0.0001	Pass
3	0.0022	0.0021	0.0001	Pass
4	0.0025	0.0025	0.0001	Pass
5	0.0025	0.0025	0.0000	Pass

Center Contact Retention Group

Initial

- **Min---------- 0.0022 inch**
- **Max ---------- 0.0027 inch**

After Retention

- **Min---------- 0.0021 inch**
- **Max ---------- 0.0027 inch**

DATA SUMMARIES

Center Contact Force:

Sample#	Push Force
1	37.67
2	36.99
3	38.05
4	36.91
5	37.97

	Push Force	
	Newtons	Force (Lbs)
Minimum	164.18	36.91
Maximum	169.25	38.05
Average	**166.88**	**37.52**
St Dev	2.39	0.54
Count	5	5

EQUIPMENT AND CALIBRATION SCHEDULES

Equipment #: TW-TT-01
Description: Normal force analyzer
Manufacturer: SE Test Systems
Model: 1220HS
Serial #: 12C100E17607
Accuracy: Last Cal: 1/6/2025, Next Cal: 1/6/2026